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NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

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NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES



National Aeronautics and Space Administration
Office of Management
Scientific and Technical Information Program
Washington, DC 1991

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INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 154 citations published in this issue of the Abstract Section cover the period January 1991 through June 1991. The Index Section references over 5000 citations covering the period May 1969 through June 1991.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

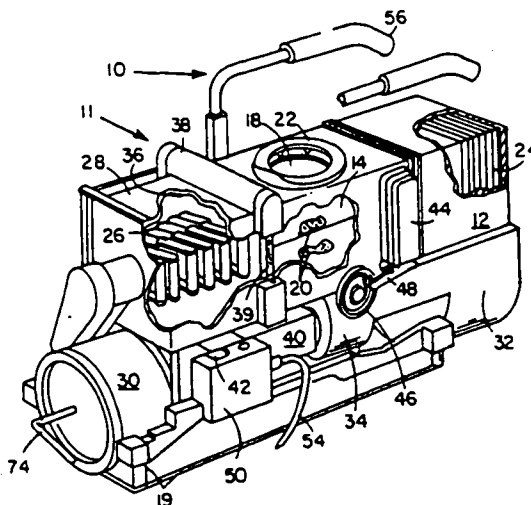
TYPICAL CITATION AND ABSTRACT

NASA SPONSORED

ACCESSION NUMBER → **N91-14724*** National Aeronautics and Space Administration. ← CORPORATE SOURCE
 Lyndon B. Johnson Space Center, Houston, TX.
 TITLE → **METHOD FOR WASTE COLLECTION AND STORAGE Patent**
 INVENTORS → **WILLIAM E. THORNTON, JR.,** inventor (to NASA) and **HENRY B. WHITMORE,** inventor (to NASA) 24 Jul. 1990 15 p Filed 10 Aug. 1989 Division of US-Patent-Appl-SN-035401, filed 7 Apr. 1989
 NASA CASE NUMBER → (NASA-CASE-MSC-21025-2; US-PATENT-4,942,632;
 US PATENT APPLICATIONS → US-PATENT-APPL-SN-391911; US-PATENT-APPL-SN-035401;
 SERIAL NUMBERS → US-PATENT-CLASS-4-661; US-PATENT-CLASS-4-482;
 US-PATENT-CLASS-4-316; US-PATENT-CLASS-4-DIG.9;
 INT-PATENT-CLASS-A47K-11/00) Avail: US Patent and
 Trademark Office CSCL 06K ← AVAILABILITY SOURCE
 COSATI CODE

A method for collection of fecal matter designed to operate efficiently in a zero gravity environment was invented. The system consists of a waste collection area within a body having a seat opening. Low pressure within the waste collection area directs fecal matter away from the user's buttocks and prevents the escape of waste gases. The user actuates a piston covered with an absorbent pad that sweeps through the waste collection area to collect fecal matter, scrub the waste collector area, press the waste against an end of the waste collection area and retracts, leaving the used pad. Multiple pads are provided on the piston to accommodate multiple usages. Also a valve allows air to be drawn through the body, which keeps the valve from becoming plugged with the feces. A sheet feeder feeds fresh sheets of absorbent pads to a face of the piston with each actuation.

Official Gazette of the U.S. Patent and Trademark Office



KEY ILLUSTRATION

Subject Categories

(1969 - 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery. For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents. For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control. For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology. For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments. For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft. For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands. For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques. For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout. For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

N.A.—no abstracts were assigned to this category for this issue.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources. For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry. For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials. For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application. For biological materials see *55 Space Biology*.

ENGINEERING

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications. For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety*, and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry. For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling. For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography. For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers. For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography. For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower. For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing. For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation. For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory. For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices. For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion. For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity. For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation. For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust. For related information see also *75. Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots. For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

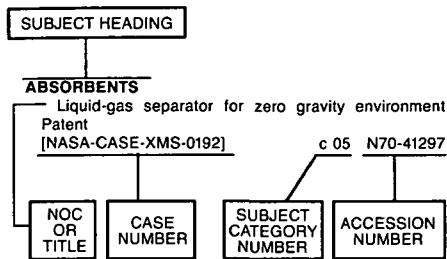
Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

Section 2 • Indexes

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Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or notation of content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The case number serves as the prime access number to the patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The accession number denotes the number by which the citation is identified within the subject category.

A

ABERRATION

- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N91-13692

ABILITIES

- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

ABLATION

- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911

ABLATIVE MATERIALS

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

- Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
- Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
- Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
- Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
- ABORT APPARATUS**
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
- ABRASION**
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- ABRASION RESISTANCE**
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
- ABRASIVES**
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
- ABSORBENTS**
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
- Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- ABSORBERS (EQUIPMENT)**
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
- ABSORBERS (MATERIALS)**
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- ABSORPTION**
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
- Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- ABSORPTION COOLING**
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- ABSORPTION CROSS SECTIONS**
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
- ABSORPTION SPECTRA**
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006
- ABSORPTION SPECTROSCOPY**
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- ABSORPTIVITY**
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- AC GENERATORS**
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- ACCELERATED LIFE TESTS**
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- ACCELERATION**
Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
- ACCELERATION (PHYSICS)**
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
- Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- ACCELERATION PROTECTION**
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- ACCELERATION STRESSES (PHYSIOLOGY)**
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

ACCELERATION TOLERANCE

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

ACCELERATORS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

ACCELEROMETERS

Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347

ACCEPTABILITY

Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

ACCEPTOR MATERIALS

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

ACCESS CONTROL

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

ACCIDENT PREVENTION

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

ACCOMMODATION

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

ACCUMULATORS

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

ACETALS

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

ACETATES

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ACETIC ACID

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

ACETYL COMPOUNDS

Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973

ACETYLENE

Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

ACOUSTIC ATTENUATION

Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710

ACOUSTIC DUCTS

Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

ACOUSTIC EMISSION

Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

ACOUSTIC EXCITATION

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

ACOUSTIC IMPEDANCE

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Transducer holder and method of making
[NASA-CASE-LAR-14027-1] c 35 N91-13693
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707

ACOUSTIC LEVITATION

Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Containerless high purity puffing process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

ACOUSTIC MEASUREMENT

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

ACOUSTIC PROPAGATION

Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

ACOUSTIC PROPERTIES

Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

ACOUSTICAL HOLOGRAPHY

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

ACOUSTICS

Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

ACOUSTO-OPTICS

Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

ACRYLATES

Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

ACRYLONITRILES

Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

ACTIVATED CARBON

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

ACTIVATION ENERGY

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

ACTIVE CONTROL

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

ACTUATION

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

ACTUATOR DISKS

Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

ACTUATORS

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442

Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616

ADAPTATION

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

ADAPTERS

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

ADAPTIVE CONTROL

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

ADAPTIVE FILTERS

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-NXP-03263] c 09 N71-18843

ADDITION RESINS

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566

ADDITIVES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

ADDRESSING

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

ADENOSINE TRIPHOSPHATE

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

ADHESION TESTS

Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

ADHESIVE BONDING

Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

ADHESIVES

Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403

ADIABATIC CONDITIONS

Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-13683

ADJUSTING

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
- Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
- AERIAL RUDDERS**
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- AEROACOUSTICS**
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- AERODYNAMIC BALANCE**
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- AERODYNAMIC BRAKES**
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
- Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
- AERODYNAMIC CHARACTERISTICS**
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- Space shuttle vehicle and system
[NASA-CASE-MS-C-12433] c 31 N73-14854
- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
- Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999
- AERODYNAMIC CONFIGURATIONS**
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
- AERODYNAMIC DRAG**
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
- Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
- AERODYNAMIC HEATING**
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Stand-off type ablative heat shield
[NASA-CASE-MS-C-12143-1] c 33 N72-17947
- AERODYNAMIC INTERFERENCE**
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- AERODYNAMIC LOADS**
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- AERODYNAMIC NOISE**
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- AERODYNAMIC STABILITY**
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Emergency earth orbital escape device
[NASA-CASE-MS-C-13281] c 31 N72-18859
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
- AERODYNAMIC STALLING**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- AEROELASTICITY**
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- AERONAUTICAL ENGINEERING**
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- AEROSOLS**
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- AEROSPACE ENGINEERING**
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Installing fiber insulation
[NASA-CASE-MS-C-16973-1] c 37 N81-14317
- AEROSPACE ENVIRONMENTS**
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- Automatic biowaste sampling
[NASA-CASE-MS-C-14640-1] c 54 N76-14804
- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-C-14331-3] c 27 N78-32262
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MS-C-18852-1] c 37 N85-29283
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Method of making a flexible diaphragm
[NASA-CASE-MS-C-20797-1] c 37 N87-23981
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- Tank gauging apparatus and method
[NASA-CASE-MS-C-21059-2] c 35 N91-15511
- AEROSPACE MEDICINE**
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- AEROSPACE PLANES**
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- AEROSPACE SYSTEMS**
Bidirectional drive and brake mechanism
[NASA-CASE-MS-C-21540-1] c 37 N90-26342
- AEROSPACE VEHICLES**
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- AFTERBODIES**
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- AFTERBURNING**
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- AGGLOMERATION**
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- AGING (MATERIALS)**
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- AGRICULTURE**
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- AILERONS**
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- AIR**
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Solid sorbent air sampler
[NASA-CASE-MS-C-20653-1] c 35 N86-26595
- AIR BREATHING ENGINES**
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- AIR CONDITIONING**
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- AIR CONDITIONING EQUIPMENT**
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- AIR COOLING**
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- AIR FILTERS**
Gas filter mounting structure
[NASA-CASE-MS-C-12297] c 14 N72-23457
- AIR FLOW**
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- AIR INTAKES**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- AIR LOCKS**
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- AIR NAVIGATION**
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- AIR POLLUTION**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
- AIR PURIFICATION**
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Cell and method for electrolysis of water and anode
[NASA-CASE-MS-C-16394-1] c 28 N81-24280
- AIR QUALITY**
Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- AIR SAMPLING**
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- AIR START**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- AIR TRAFFIC CONTROL**
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- AIR TRANSPORTATION**
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- AIRBORNE EQUIPMENT**
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- AIRBORNE/SPACEBORNE COMPUTERS**
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- AIRCRAFT**
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- AIRCRAFT ACCIDENTS**
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- AIRCRAFT ANTENNAS**
Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558
- AIRCRAFT COMPARTMENTS**
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- AIRCRAFT CONFIGURATIONS**
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight
Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
- AIRCRAFT CONSTRUCTION MATERIALS**
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- AIRCRAFT CONTROL**
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MS-C-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138
- AIRCRAFT DESIGN**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
- AIRCRAFT DETECTION**
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- AIRCRAFT ENGINES**
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

AIRCRAFT EQUIPMENT
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

AIRCRAFT FUEL SYSTEMS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

AIRCRAFT GUIDANCE
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

AIRCRAFT INSTRUMENTS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT LANDING
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT LAUNCHING DEVICES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MANEUVERS

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS

Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

AIRCRAFT PERFORMANCE

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT PILOTS

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT POWER SUPPLIES

Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

AIRCRAFT SAFETY

Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

AIRCRAFT SPIN

Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138

AIRCRAFT STABILITY

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

AIRCRAFT STRUCTURES

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

AIRCRAFT TIRES

Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

AIRCRAFT WAKES

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

AIRFOIL PROFILES

Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

AIRFOILS

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N91-13687

AIRFRAMES

Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

AIRSPEED

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

ALBUMINS

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

ALCOHOLS

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALGORITHMS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

ALIGNMENT

- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272
- Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341
- Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-13730
- Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-14000
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- ALKALI HALIDES**
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALI METALS**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- ALKALINE BATTERIES**
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- ALKALINE EARTH OXIDES**
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- ALKYL COMPOUNDS**
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
- ALKYNES**
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- ALLOYS**
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
- Brazing alloy binder
[NASA-CASE-XMF-05688] c 26 N75-27125
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- ALPHA PARTICLES**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- ALPHANUMERIC CHARACTERS**
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- ALTERNATING CURRENT**
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559

- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- ALTIMETERS**
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- ALTITUDE**
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- ALTITUDE CONTROL**
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- ALUMINUM**
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
- ALUMINUM ALLOYS**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

ALUMINUM COATINGS

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414

Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261

Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALUMINUM OXIDES

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

ALUMINUM SILICATES

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMBIGUITY

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

AMIDES

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416

Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

AMINO ACIDS

Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA

Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

AMPLIFICATION

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155

Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831

Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

AMPLITUDE DISTRIBUTION ANALYSIS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468

Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472

Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

AMPLITUDES

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844

Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

AMPOULES

Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

ANALGESIA

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ANALOG CIRCUITS

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

ANALOG COMPUTERS

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

ANALOG DATA

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

ANALOG SIMULATION

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

ANALOG TO DIGITAL CONVERTERS

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501

- Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
- Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- ANALOGIES**
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
- ANALYZERS**
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- ANCHORS (FASTENERS)**
Dazge fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- ANECHOIC CHAMBERS**
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- ANEMOMETERS**
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
- ANGIOGRAPHY**
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- ANGLE OF ATTACK**
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- ANGLES (GEOMETRY)**
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831
- ANGULAR ACCELERATION**
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682
- ANGULAR CORRELATION**
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- ANGULAR DISTRIBUTION**
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- ANGULAR MOMENTUM**
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
- ANGULAR RESOLUTION**
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
- ANGULAR VELOCITY**
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- ANHYDRIDES**
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Novel polyimide compositions based on 4,4': Isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
- ANILINE**
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- ANIMALS**
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
- ANISOTROPIC MEDIA**
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- ANISOTROPY**
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
- ANNEALING**
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- ANNIHILATION REACTIONS**
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472
- ANNULAR NOZZLES**
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- ANNULAR PLATES**
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
- Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
- ANNULI**
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- ANODES**
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- ANODIC COATINGS**
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- ANOMALIES**
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- ANTENNA ARRAYS**
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
- Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
- Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015

ANTENNA COMPONENTS

Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

ANTENNA COUPLERS

Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ANTENNA DESIGN

Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056

Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HON-00937] c 07 N71-28979

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117

Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516

Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539

Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-13787

ANTENNA FEEDS

Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285

Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329

Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

ANTENNA RADIATION PATTERNS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462

Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101

Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

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Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101

Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191

Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

ANTIBIOTICS

Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

ANTIBODIES

Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

ANTIFRICTION BEARINGS

Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997

Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359

Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

ANTIGRAVITY

Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

ANTI-HISTAMINICS

Indomethacin-acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ANTIREFLECTION COATINGS

Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580

Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

ANVILS

Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

APERTURES

Focusing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732

Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

APOLLO PROJECT

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

APOLLO SPACECRAFT

Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679

Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

APPLICATIONS OF MATHEMATICS

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

APPROACH

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

AQUATIC PLANTS

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

AQUEOUS SOLUTIONS

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245

Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166

Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441

Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371

Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684

ARC DISCHARGES

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

ARC HEATING

Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

ARC JET ENGINES

- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

ARC LAMPS

- Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

ARC SPRAYING

- Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

ARC WELDING

- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

ARCHITECTURE

- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

ARCHITECTURE (COMPUTERS)

- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13690
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
- ARGON**
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- ARITHMETIC**
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

ARM (ANATOMY)

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Orthotic arm joint — for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

ARMATURES

- Direct current motor with stationary armature and field member
[NASA-CASE-XGS-05290] c 09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

AROMATIC COMPOUNDS

- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-LAR-11008-1] c 27 N78-31232
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Curing agent for polyepoxides and epoxy resins and composites cured therewith — preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Bis (4-(3,4-dimethylene-pyrrolyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

ARRAYS

- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

ARTERIES

- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391

ARTIFICIAL CLOUDS

- Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL INTELLIGENCE

- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

ARTIFICIAL SATELLITES

- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS

- Reconstituted asbestos matrix — for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

ASHES

- Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

ASPECT RATIO

- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT

- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING

- Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

ASSEMBLIES

- Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

ASSEMBLING

- Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866

ASSEMBLY

- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

ASSOCIATIVE PROCESSING (COMPUTERS)

- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

ASTRONAUT LOCOMOTION

- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

ASTRONAUT MANEUVERING EQUIPMENT

- Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

ASTRONAUT PERFORMANCE

- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

ASTRONAUT TRAINING

- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

ASTRONAUTS

- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Manual actuator — for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979

ASTRONAVIGATION

- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

ASTRONOMICAL PHOTOGRAPHY

- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419

ASYMMETRY

- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

ATMOSPHERIC CHEMISTRY

- All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

ATMOSPHERIC COMPOSITION

- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- ATMOSPHERIC DENSITY**
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- ATMOSPHERIC ENTRY**
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
- ATMOSPHERIC ENTRY SIMULATION**
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
- ATMOSPHERIC MOISTURE**
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- ATMOSPHERIC PHYSICS**
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- ATMOSPHERIC PRESSURE**
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- ATMOSPHERIC RADIATION**
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- ATMOSPHERIC REFRACTION**
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
- ATMOSPHERIC SCATTERING**
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- ATMOSPHERIC SOUNDING**
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- ATMOSPHERIC TEMPERATURE**
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- ATMOSPHERIC TURBULENCE**
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- ATOMIC BEAMS**
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
- ATOMIC EXCITATIONS**
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- ATOMIC STRUCTURE**
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- ATOMIZERS**
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Constant-output atomizer --- inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

ATS

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- ATTACHMENT**
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- ATTENUATORS**
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- ATTITUDE (INCLINATION)**
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
- ATTITUDE CONTROL**
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
- Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
- Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
- Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

- Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292
- ATTITUDE GYROS**
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- ATTITUDE INDICATORS**
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- ATTITUDE STABILITY**
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- AUDIO EQUIPMENT**
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- AUDIO FREQUENCIES**
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- AUDIO SIGNALS**
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
- AUDITORY DEFECTS**
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- AUDITORY PERCEPTION**
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- AUDITORY SIGNALS**
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- AUDITORY STIMULI**
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- AUGER EFFECT**
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- AUSTENITIC STAINLESS STEELS**
Nickel aluminate coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
- Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- AUTOClaves**
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- AUTOCORRELATION**
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- AUTOMATIC CONTROL**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607

- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
- Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
- Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
- Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-13482
- Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
- AUTOMATIC CONTROL VALVES**
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- AUTOMATIC FREQUENCY CONTROL**
- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- AUTOMATIC GAIN CONTROL**
- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- AUTOMATIC TEST EQUIPMENT**
- Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- AUTOMATION**
- Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
- AUTOMOBILE ENGINES**
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- AUTOMOBILE FUELS**
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- AUTONOMOUS NAVIGATION**
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- AUTONOMY**
- Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
- Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
- AUXILIARY POWER SOURCES**
- Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- AVERAGE**
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- AVIONICS**
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- AXES (REFERENCE LINES)**
- Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- AXES OF ROTATION**
- Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
- AXIAL COMPRESSION LOADS**
- Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- AXIAL FLOW**
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- AXIAL FLOW PUMPS**
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- AXIAL FLOW TURBINES**
- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
- AXIAL LOADS**
- Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
- AXIAL STRESS**
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
- AZIMUTH**
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- AZINES**
- Azine polymers and process for preparing the same
[NASA-CASE-XMF-08656] c 06 N71-11242
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- AZO COMPOUNDS**
- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- AZOLES**
- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
- Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

B

BACK INJURIES

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

BACKGROUND NOISE

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

BACKGROUND RADIATION

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

BACKSCATTERING

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors
Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

BACKUPS

Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

BACKWARD WAVES

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

BACTERIA

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BACTERIOLOGY

Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

BAFFLES

Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

BAGS

Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

BAKING

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

BALANCE

Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

BALANCING

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

BALL BEARINGS

Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

BALLAST

Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

BALLAST (MASS)

Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

BALLASTS (IMPEDANCES)

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

BALLISTICS

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

BALLOON SOUNDING

Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

BALLOON-BORNE INSTRUMENTS

Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

BALLOONS

Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

BALLS

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

BANDPASS FILTERS

Helical coaxial resonator RF filter
[NASA-CASE-GSC-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

BANDWIDTH

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

BARIUM

Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

BARIUM COMPOUNDS

Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

BARIUM FLUORIDES

Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

BARIUM ION CLOUDS

Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

BARIUM TITANATES

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

BARRIER LAYERS

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

BARRIERS

Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

BARS

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

BASES (CHEMICAL)

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

BATHING

Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

BATHS

Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

BATTERY CHARGERS

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES

Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BAYS (STRUCTURAL UNITS)

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

BEADS

- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BEAM LEADS

- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS

- Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026

BEAM SWITCHING

- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES

- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

BEAMS (RADIATION)

- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Sideloading laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

BEAMS (SUPPORTS)

- Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

Joint for deployable structures

- [NASA-CASE-NPO-16038-1] c 37 N86-19605
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

BEARING

- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

BEARING (DIRECTION)

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS

- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Portable 90 degree proof loading device
[NASA-CASE-MS-C-20250-1] c 35 N86-19581

BEDS (PROCESS ENGINEERING)

- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

BEER LAW

- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS

- Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MS-C-12171-1] c 34 N90-21999

BELTS

- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BEND TESTS

- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

BENDING

- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

BENDING DIAGRAMS

- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE

- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

BENDING VIBRATION

- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE

- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamino benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

BERYLLIUM ALLOYS

- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES

- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIDIRECTIONAL REFLECTANCE

- A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

BIMETALS

- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES

- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- BINARY DATA**
- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
- Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
- BINARY DIGITS**
- Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
- Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
- Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- BINARY FLUIDS**
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- BINARY TO DECIMAL CONVERTERS**
- Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- BINDERS (MATERIALS)**
- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-13503
- Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152

BINOCULARS

- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
- BIOASSAY**
- Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- BIOCHEMISTRY**
- A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531
- BIODEGRADATION**
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- BIODYNAMICS**
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- BIOELECTRIC POTENTIAL**
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- BIOELECTRICITY**
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- BIOENGINEERING**
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- BIOINSTRUMENTATION**
- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
- Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- BIOLOGICAL EFFECTS**
- Bio-reactor cell culture process
[NASA-CASE-MSC-21293-1] c 51 N89-14666
- BIO LUMINESCENCE**
- Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
- Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- BIOMEDICAL DATA**
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- BIOMETRICS**
- Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
- Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- BIOPROCESSING**
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- BIOREACTORS**
- Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- BIOTECHNOLOGY**
- Bio-reactor cell culture process
[NASA-CASE-MSC-21293-1] c 51 N89-14666
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

BIOTELEMETRY

- Telemeter adaptable for implanting in an animal Patent
 [NASA-CASE-XAC-05706] c 05 N71-12342
 Miniature multichannel biotelemeter system
 [NASA-CASE-NPO-13065-1] c 52 N74-26625
 Medical subject monitoring systems --- multichannel monitoring systems
 [NASA-CASE-MSC-14180-1] c 52 N76-14757
 Accelerometer telemetry system
 [NASA-CASE-ARC-10849-1] c 17 N76-29347
 Miniature ingestible telemeter devices to measure deep-body temperature
 [NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS

- Voltage regulator for battery power source --- using a bipolar transistor
 [NASA-CASE-FRC-10116-1] c 33 N79-23345
 Power converter
 [NASA-CASE-FRC-11014-1] c 33 N82-18494
 High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
 [NASA-CASE-NPO-18101-1-CU] c 74 N91-13995

BIREFRINGENCE

- Polarimeter for transient measurement Patent
 [NASA-CASE-XNP-08883] c 23 N71-16101

BISMALEIMIDE

- Amine terminated bisaspartimide polymer
 [NASA-CASE-ARC-11421-2] c 27 N86-31726
 Process for curing bismaleimide resins
 [NASA-CASE-ARC-11429-4CU] c 27 N87-15304
 Vinyl stilbazoles
 [NASA-CASE-ARC-11429-3CU] c 27 N87-16908
 Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
 [NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
 Bis (4-(3,4-dimethylene-pyrrolyl)-phenyl) methane
 [NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
 N-(3-ethynylphenyl)maleimide
 [NASA-CASE-LAR-14188-2] c 23 N91-14419

BISMUTH

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
 [NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS

- Hall effect magnetometer
 [NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS

- AC logic flip-flop circuits Patent
 [NASA-CASE-XGS-00823] c 10 N71-15910

BIT ERROR RATE

- Detection of multiple-bit errors from single-ion tracks in integrated circuits
 [NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

BIT SYNCHRONIZATION

- Telemetry word forming unit
 [NASA-CASE-XNP-09225] c 09 N69-24333
 Transition tracking bit synchronization system
 [NASA-CASE-NPO-10844] c 07 N72-20140
 Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
 [NASA-CASE-NPO-11302-1] c 07 N73-13149
 Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
 [NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE

- Minimal logic block encoder Patent
 [NASA-CASE-NPO-10595] c 10 N71-25917

BITS

- Parallel generation of the check bits of a PN sequence Patent
 [NASA-CASE-XNP-04623] c 10 N71-26103
 MOD 2 sequential function generator for multibit binary sequence
 [NASA-CASE-NPO-10636] c 08 N72-25210
 Bit error rate measurement above and below bit rate tracking threshold
 [NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS

- Oil shale extraction using super-critical extraction
 [NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION

- Black-body furnace Patent
 [NASA-CASE-XLE-01399] c 33 N71-15625
 Cavity radiometer Patent
 [NASA-CASE-XNP-08961] c 14 N71-24809
 Conically shaped cavity radiometer with a dual purpose cone winding Patent
 [NASA-CASE-XNP-09701] c 14 N71-26475
 Black body cavity radiometer Patent
 [NASA-CASE-NPO-10810] c 14 N71-27323
 Stable density stratification solar pond
 [NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER

- Prosthetic urinary sphincter
 [NASA-CASE-MFS-23717-1] c 52 N81-25660
 Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
 [NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
 Rapidly quantifying the relative distention of a human bladder
 [NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

BLADE TIPS

- Modification and improvements to cooled blades Patent
 [NASA-CASE-XLE-00092] c 15 N70-33264
 Tip cap for a rotor blade
 [NASA-CASE-LEW-13654-1] c 07 N84-22560

BLADES

- Impact absorbing blade mounts for variable pitch blades
 [NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)

- Line cutter Patent
 [NASA-CASE-XMS-04072] c 15 N70-42017
 Tissue macerating instrument
 [NASA-CASE-LEW-12668-1] c 52 N78-14773
 Crystal cleaving machine
 [NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS

- Linear explosive comparison
 [NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOCK COPOLYMERS

- Imide/arylene ether copolymers
 [NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

BLOOD

- Reduction of blood serum cholesterol
 [NASA-CASE-NPO-12119-1] c 52 N75-15270
 Gas diffusion liquid storage bag and method of use for storing blood
 [NASA-CASE-NPO-13930-1] c 52 N79-14749
 Dialysis system --- using ion exchange resin membranes permeable to urea molecules
 [NASA-CASE-NPO-14101-1] c 52 N80-14687

BLOOD FLOW

- Logic-controlled occlusive cuff system
 [NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE

- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
 [NASA-CASE-XMS-06061] c 05 N71-23317
 Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
 [NASA-CASE-MSC-13999-1] c 52 N74-26626
 Arterial pulse wave pressure transducer
 [NASA-CASE-GSC-11531-1] c 52 N74-27566
 Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
 [NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS

- Non-invasive method and apparatus for measuring pressure within a pliable vessel
 [NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES

- Annular supersonic decelerator or drogue Patent
 [NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES

- Flow field simulation Patent
 [NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION

- Conforming polisher for aspheric surface of revolution Patent
 [NASA-CASE-XGS-02884] c 15 N71-22705
 Moment of inertia test fixture Patent
 [NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS

- Programmable physiological infusion
 [NASA-CASE-ARC-10447-1] c 52 N74-22771
 Method of detecting and counting bacteria
 [NASA-CASE-GSC-11917-2] c 51 N76-29891
 Micro-fluid exchange coupling apparatus
 [NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS

- Space suit having improved waist and torso movement
 [NASA-CASE-ARC-10275-1] c 05 N72-22092
 Controller arm for a remotely related slave arm
 [NASA-CASE-ARC-11052-1] c 37 N79-28551
 Kinesimetric method and apparatus
 [NASA-CASE-MSC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)

- Biomedical ultrasonoscope
 [NASA-CASE-ARC-10994-1] c 52 N76-33835
 Miniature implantable ultrasonic echosonometer
 [NASA-CASE-ARC-11035-1] c 52 N79-18580
 Kinesimetric method and apparatus
 [NASA-CASE-MSC-18929-1] c 39 N83-20280
 Apparatus for determining changes in limb volume
 [NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY TEMPERATURE

- Garments for controlling the temperature of the body Patent
 [NASA-CASE-XMS-10269] c 05 N71-24147
 Miniature ingestible telemeter devices to measure deep-body temperature
 [NASA-CASE-ARC-10583-1] c 52 N76-29894
 Method for thermal monitoring subcutaneous tissue
 [NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)

- Whole body measurement systems --- for weightlessness simulation
 [NASA-CASE-MSC-13972-1] c 52 N74-10975
 Apparatus for determining changes in limb volume
 [NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS

- Free wing assembly for an aircraft
 [NASA-CASE-FRC-10092-1] c 05 N79-12061
 Means for controlling aerodynamically induced twist
 [NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS

- Boiler for generating high quality vapor Patent
 [NASA-CASE-XLE-00785] c 33 N71-16104
 Shell side liquid metal boiler
 [NASA-CASE-NPO-10831] c 33 N72-20915
 Carbon granule probe microphone for leak detection --- recovery boilers
 [NASA-CASE-NPO-16027-1] c 35 N85-21597

BOILING

- Process for making a noble metal on tin oxide catalyst
 [NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
 Boron-containing organosilane polymers and ceramic materials thereof
 [NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BOLOMETERS

- Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
 [NASA-CASE-XNP-01193] c 10 N71-16057
 Thin film capacitive bolometer and temperature sensor Patent
 [NASA-CASE-NPO-10607] c 09 N71-27232
 Wedge immersed thermistor bolometers
 [NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTED JOINTS

- Optimized bolted joint
 [NASA-CASE-LAR-13250-1] c 37 N86-27630
 Device for measuring hole elongation in a bolted joint
 [NASA-CASE-LAR-13453-1] c 37 N88-14361
 Clevis joint for deployable space structures
 [NASA-CASE-LAR-13898-1] c 37 N91-15544

BOLTS

- Gas actuated bolt disconnect Patent
 [NASA-CASE-XLA-00326] c 03 N70-34667
 Despin weight release Patent
 [NASA-CASE-XLA-00679] c 15 N70-38601
 Inspection gage for boss Patent
 [NASA-CASE-XMF-04966] c 14 N71-17658
 Split nut separation system Patent
 [NASA-CASE-XNP-06914] c 15 N71-21489
 Fastener stretcher
 [NASA-CASE-GSC-11149-1] c 15 N73-30457
 Optimized bolted joint
 [NASA-CASE-LAR-13250-1] c 37 N86-27630
 Bearing-bypass material system test
 [NASA-CASE-LAR-13458-1] c 35 N88-23967

BONDING

- Bonding graphite with fused silver chloride
 [NASA-CASE-XGS-00963] c 15 N69-39735
 Bonded joint and method --- for reducing peak shear stress in adhesive bonds
 [NASA-CASE-LAR-10900-1] c 37 N74-23064
 Bonding method in the manufacture of continuous regression rate sensor devices
 [NASA-CASE-LAR-10337-1] c 24 N75-30260
 Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
 [NASA-CASE-MSC-14182-1] c 27 N76-14264
 Bonding machine for forming a solar array strip
 [NASA-CASE-NPO-13652-2] c 44 N79-24431
 Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
 [NASA-CASE-GSC-11577-3] c 24 N79-25143
 Method of making a partial interlaminar separation composite system
 [NASA-CASE-LAR-12065-2] c 24 N81-33235
 Attachment system for silica tiles --- thermal protection for space shuttle orbiter
 [NASA-CASE-MSC-18741-1] c 27 N82-29456
 Surface texturing of fluoropolymers
 [NASA-CASE-LEW-13028-1] c 27 N82-33521
 Heat sealable, flame and abrasion resistant coated fabric
 [NASA-CASE-MSC-18382-2] c 27 N84-14324
 Insulation bonding test system
 [NASA-CASE-MFS-25862-1] c 27 N85-20126

- Cryogenic insulation strength and bond tester*
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-13580

BONES

- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

BOOLEAN ALGEBRA

- VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

BOOMS (EQUIPMENT)

- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

BOOSTER RECOVERY

- Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

BOOSTER ROCKET ENGINES

- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

BOOTS (FOOTWEAR)

- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

BOREHOLES

- Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

BORIDES

- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

BORING MACHINES

- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

BORON

- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BORON CARBIDES

- Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

BORON CHLORIDES

- Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

BORON COMPOUNDS

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

BORON FLUORIDES

- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

BOROSILICATE GLASS

- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

BOULES

- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

BOUNDARY LAYER CONTROL

- Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

BOUNDARY LAYER FLOW

- Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

BOUNDARY LAYER SEPARATION

- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

BOUNDARY LAYER TRANSITION

- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224

- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

BOUNDARY LAYERS

- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

BOXES (CONTAINERS)

- Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

BRACKETS

- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

BRACKETS

- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

- Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-13735

- Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388

BRILLE

- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BRACKETS

- Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

BRACKETS (FOR ARRESTING MOTION)

- Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850

- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976

- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

- Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369

- Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342

BRACKING

- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030

- Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652

- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726

BRAZING

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

- Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

- Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

- Brazing alloy composition
[NASA-CASE-XMF-06053-1] c 26 N75-27126

- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051

- Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900

- Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

- Foldable construction block
[NASA-CASE-MSC-12232-2] c 32 N73-13921

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

- Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072

- Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068

- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069

- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462

- Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

- Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583

- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808

- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831

- Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271

- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

- A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

- Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595

BROADBAND AMPLIFIERS

- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

BROADCASTING

- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N91-15469

BROMINATION

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262

BROMINE

- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262

BROMINE COMPOUNDS

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

BRONZES

- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

BRUSHES

- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

BRUSHES (ELECTRICAL CONTACTS)

- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

BUBBLES

- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

BUCKLING

- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

BUFFER STORAGE

- Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BUFFERS (CHEMISTRY)

- Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS

- Foldable construction block
[NASA-CASE-MS-C-12233-1] c 15 N72-25454

BULBS

- External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS

- Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
- Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

BUOYANCY

- Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS

- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE

- Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

BURNOUT

- Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

BURNS (INJURIES)

- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

BUS CONDUCTORS

- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

BUSHINGS

- Overcenter collet space station truss fastener
[NASA-CASE-MS-C-21504-1] c 18 N90-26859

BUTANES

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS

- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES

- Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
- Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

BUTYRIC ACID

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES

- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

C**CABLE FORCE RECORDERS**

- Winch having cable position and load indicators Patent
[NASA-CASE-MS-C-12052-1] c 15 N71-24599

CABLES

- Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

CABLES (ROPES)

- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
- Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
- Flexible/rigidifiable cable assembly
[NASA-CASE-MS-C-13512-1] c 15 N72-22485
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- Reeling system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138

CADMIUM SULFIDES

- High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826

CALCIUM

- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

CALCIUM FLUORIDES

- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

CALCIUM OXIDES

- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CALCIUM PHOSPHATES

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

CALCULATORS

- Sun angle calculator
[NASA-CASE-MS-C-12617-1] c 35 N76-29552

CALCULI

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

CALIBRATING

- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
- In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
- Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

CALORIMETERS

- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

CAMERA SHUTTERS

- Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

CAMERAS

- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Laser camera and diffusion filter therefor Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CAMS

- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

CANARD CONFIGURATIONS

- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

CANCER

- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

CANNING

- One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

CANOPIES

- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CANS

- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

CANTILEVER BEAMS

- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

CANTILEVER MEMBERS

- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

CAPACITANCE

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149

CAPACITANCE SWITCHES

- Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

CAPACITORS

- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

CAPILLARY FLOW

- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

CAPILLARY TUBES

- Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

CARBAZOLES

- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

CARBIDES

- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

CARBOHYDRATES

- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

CARBON

- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946

CARBON ARCS

- Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

CARBON COMPOUNDS

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

CARBON DIOXIDE

- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

CARBON DIOXIDE LASERS

- Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

CARBON DIOXIDE REMOVAL

- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

CARBON FIBER REINFORCED PLASTICS

- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

- Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- CARBON FIBERS**
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262
- CARBON MONOXIDE**
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
- Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
- CARBON-CARBON COMPOSITES**
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
- Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
- CARBONACEOUS MATERIALS**
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- CARBONATES**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- CARBONIZATION**
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- CARBONYL COMPOUNDS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
- CARBORANE**
Process for the preparation of polycarboranophosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranycyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- CARBOXYL GROUP**
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- CARBOXYLIC ACIDS**
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- CARCINOGENS**
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
- CARDIAC VENTRICLES**
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- CARDIOGRAPHY**
Digital cardiachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
- CARDIOLOGY**
Rate meter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- CARDIOTACHOMETERS**
Digital computing cardiachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
- CARDIOVASCULAR SYSTEM**
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- CARGO**
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- CARRIER FREQUENCIES**
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- CARRIER LIFETIME**
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- CARRIER WAVES**
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- CARRIERS**
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- CARTESIAN COORDINATES**
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
- CARTRIDGES**
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
- Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
- CASCADE CONTROL**
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Multiloop PC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
- CASCADE FLOW**
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-18936-1] c 35 N83-29652
- CASE BONDED PROPELLANTS**
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- CASES (CONTAINERS)**
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- CASSEGRAIN ANTENNAS**
Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- CASSEGRAIN OPTICS**
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
- CASTING**
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- CASTINGS**
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- Transducer holder and method of making
[NASA-CASE-LAR-14027-1] c 35 N91-13693
- CATALYSIS**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- CATALYSTS**
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
- CATALYTIC ACTIVITY**
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

CATHETERIZATION

- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CATHODE RAY TUBES

- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES

- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

CATHOLYTES

- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

CATIONS

- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

CAVITATION FLOW

- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

CAVITIES

- Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

CAVITY RESONATORS

- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MS-C-12259-1] c 07 N70-12616
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MS-C-12259-2] c 07 N72-33146
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

CELESTIAL BODIES

- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250

CELESTIAL NAVIGATION

- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

CELL ANODES

- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

CELL DIVISION

- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MS-C-21662-1] c 51 N91-17531

CELLS

- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

CELLS (BIOLOGY)

- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Horizontally rotated cell culture system
[NASA-CASE-MS-C-21294-1] c 51 N89-13131
Bio-reactor cell culture process
[NASA-CASE-MS-C-21293-1] c 51 N89-14666
Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N89-25557
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Three-dimensional coculture process
[NASA-CASE-MS-C-21580-1] c 51 N90-18852
Three-dimensional cell to tissue assembly process
[NASA-CASE-MS-C-21559-1] c 51 N91-13860
A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MS-C-21662-1] c 51 N91-17531

CELLULOSE

- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

CELLULOSE NITRATE

- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

CENTERBODIES

- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

CENTRAL PROCESSING UNITS

- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

CENTRIFUGAL COMPRESSORS

- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081

CENTRIFUGAL FORCE

- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

CENTRIFUGES

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

CERAMIC BONDING

- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

CERAMIC COATINGS

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Two-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-2] c 27 N76-23426
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

CERAMIC HONEYCOMBS

- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

CERAMIC MATRIX COMPOSITES

- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- CERAMIC NUCLEAR FUELS**
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- CERAMICS**
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-12619-2] c 27 N79-12221
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
Lightweight ceramic insulation and method
[NASA-CASE-MS-20782-1] c 27 N90-23566
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152
- CEREBROSPINAL FLUID**
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- CERMETS**
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- CESIUM**
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- CESIUM DIODES**
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- CESIUM ENGINES**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- CESIUM VAPOR**
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- CHALCOGENIDES**
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- CHAMBERS**
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- CHANGE DETECTION**
Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
- CHANNEL FLOW**
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Heated element fluid flow sensor Patent
[NASA-CASE-MS-12084-1] c 12 N71-17569
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- CHANNELS (DATA TRANSMISSION)**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- CHARACTER RECOGNITION**
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- CHARACTERIZATION**
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- CHARGE COUPLED DEVICES**
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Portable dynamic fundus instrument
[NASA-CASE-MS-21675-1] c 52 N91-13865
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- CHARGE DISTRIBUTION**
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- CHARGE EFFICIENCY**
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- CHARGE EXCHANGE**
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- CHARGE TRANSFER**
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
- CHARGE TRANSFER DEVICES**
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- CHARGED PARTICLES**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- CHARGING**
Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- CHARRING**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- CHASSIS**
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- CHECKOUT**
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- CHELATES**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- CHEMICAL ANALYSIS**
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CHEMICAL AUXILIARY POWER UNITS

- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

CHEMICAL BONDS

- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

CHEMICAL COMPOSITION

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Novel polyimide compositions based on 4,4': isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

CHEMICAL COMPOUNDS

- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

CHEMICAL ELEMENTS

- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

CHEMICAL ENGINEERING

- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CHEMICAL EXPLOSIONS

- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

CHEMICAL INDICATORS

- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MS-20857-1] c 37 N87-17035

CHEMICAL MACHINING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

CHEMICAL PROPERTIES

- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

CHEMICAL REACTIONS

- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Apparatus for producing metal powders
[NASA-CASE-XLE-08461-2] c 17 N72-28535
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Self-cycling fluid heater
[NASA-CASE-MS-15567-1] c 33 N73-16918
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

CHEMICAL REACTORS

- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

CHEMICAL TESTS

- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039

CHEMILUMINESCENCE

- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MS-16260-1] c 51 N80-16714

CHEMISORPTION

- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

CHEMOTHERAPY

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

CHIPS (ELECTRONICS)

- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

CHIPS (MEMORY DEVICES)

- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

CHIRP SIGNALS

- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

CHLORIDES

- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

CHLORINATION

- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE

- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CHLOROPRENE RESINS

- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES

- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

CHOLESTEROL

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY

Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM

Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

CHROMIUM ALLOYS

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM CARBIDES

Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-13503

CHROMIUM COMPOUNDS

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY

High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCUIT BOARDS

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

CIRCUIT BREAKERS

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Correlation function apparatus Patent
[NASA-CASE-NPO-00746] c 07 N71-21476
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

CIRCUIT RELIABILITY

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

CIRCUITS

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

CIRCULAR CONES

Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

CIRCULAR CYLINDERS

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

CIRCULAR POLARIZATION

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

CIRCULAR TUBES

Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CIRCULATION CONTROL AIRFOILS

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

CIRCULATORS (PHASE SHIFT CIRCUITS)

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

CIRCUMFERENCES

Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

CLADDING

Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

CLAMPING CIRCUITS

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

CLAMPS

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531

Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

Power saw
[NASA-CASE-MSC-21469-1] c 37 N90-26340

Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N90-26859

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261

Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-13730

Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617

CLASSIFICATIONS

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

CLAYS

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

CLEAN ROOMS

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

CLEANERS

Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

CLEANING

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

CLEAR AIR TURBULENCE

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

CLEARANCES

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CLEAVAGE

Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CLIMBING FLIGHT

Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

CLINICAL MEDICINE

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLIPS

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLOCKS

Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

CLOSED CIRCUIT TELEVISION

Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

CLOSED CYCLES

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

CLOSED ECOLOGICAL SYSTEMS

Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207

Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

CLOSTRIDIUM

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

CLOSURES

Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528

Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS

Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)

Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862

CLUTCHES

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

CLUTTER

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

CMOS

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

COAL

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370

Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371

Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

COAL GASIFICATION

Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583

Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

COAL LIQUEFACTION

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

COAL UTILIZATION

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599

- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- COATINGS**
- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
- Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- COAXIAL CABLES**
- Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
- High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
- Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- COAXIAL PLASMA ACCELERATORS**
- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- COBALT**
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- Metal (2), 4', 4'', 4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- COBALT ALLOYS**
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- COBALT COMPOUNDS**
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
- COBALT OXIDES**
- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- COCKPIT SIMULATORS**
- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- COCKPITS**
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- CODERS**
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- CODING**
- Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N91-15469
- COEFFICIENT OF FRICTION**
- Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- COENZYMES**
- Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- COHERENT ELECTROMAGNETIC RADIATION**
- Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
- Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- COHERENT LIGHT**
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- COHERENT RADIATION**
- Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Coherently-pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- COINCIDENCE CIRCUITS**
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
- COLD CATHODES**
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- COLD GAS**
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
- COLD WELDING**
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- COLD WORKING**
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- COLLAPSE**
- Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
- COLLECTION**
- Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Semi-active orbital debris sweeper
[NASA-CASE-MSC-21534-1] c 18 N90-26860
- COLLIMATION**
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
- Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- COLLIMATORS**
- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- COLLISION AVOIDANCE**
- Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- COLLISIONS**
- Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
- COLLOIDAL GENERATORS**
- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- COLLOIDAL PROPELLANTS**
- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- COLLOIDS**
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

COLOR

- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

COLOR PHOTOGRAPHY

- Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

COLOR TELEVISION

- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Color vision
[NASA-CASE-KSC-10278] c 05 N72-16015

COLUMNS

- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

COLUMNS (PROCESS ENGINEERING)

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

COLUMNS (SUPPORTS)

- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

COMBINATORIAL ANALYSIS

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

COMBINED CYCLE POWER GENERATION

- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

COMBUSTION

- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

COMBUSTION CHAMBERS

- Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
- Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
- Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

Heat exchanger --- rocket combustion chambers and cooling systems

- [NASA-CASE-LEW-12252-1] c 34 N79-13288
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
- High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771

COMBUSTION CONTROL

- Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

COMBUSTION EFFICIENCY

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

COMBUSTION PHYSICS

- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13282-1] c 37 N79-11405

COMBUSTION PRODUCTS

- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

COMBUSTION STABILITY

- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

COMET TAILS

- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

COMFORT

- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

COMMAND AND CONTROL

- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779

COMMAND MODULES

- Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

COMMUNICATING

- Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207

COMMUNICATION

- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12258-2] c 07 N72-33146

COMMUNICATION CABLES

- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986

Process for making RF shielded cable connector assemblies and the products formed thereby

- [NASA-CASE-GSC-11215-1] c 09 N73-28083
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

COMMUNICATION EQUIPMENT

- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001

COMMUNICATION NETWORKS

- Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

COMMUNICATION SATELLITES

- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

COMMUTATION

- High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

COMMUTATORS

- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

COMPARATOR CIRCUITS

- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Window comparator
[NASA-CASE-FSC-10090-1] c 33 N78-18308

COMPARATORS

- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
- Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
- Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

COMPATIBILITY

- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

COMPENSATORS

- Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

COMPLEX COMPOUNDS

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

COMPONENT RELIABILITY

Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1CU] c 71 N87-21652

Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1CU] c 35 N90-20351

COMPOSITE MATERIALS

Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288

Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583

Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124

Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210

Low temperature flexure fatigue crystal Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894

Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044

Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522

Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187

Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318

Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601

Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1CU] c 34 N88-23946

High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1CU] c 24 N90-26880

Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668

Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320

COMPOSITE PROPELLANTS

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

COMPOSITE STRUCTURES

Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536

Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170

Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452

Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131

Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258

Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196

Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

Process for HIP canning of composites
[NASA-CASE-LEW-14990-1CU] c 24 N91-17145

COMPOSITION (PROPERTY)

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

COMPRESSED AIR

Valve actuator Patent
[NASA-CASE-XHO-01208] c 15 N70-35409

COMPRESSIBILITY

Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

COMPRESSIBLE FLUIDS

Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

COMPRESSING

Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1CU] c 74 N89-14077

Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

COMPRESSION LOADS

Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

COMPRESSION RATIO

Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

COMPRESSION TESTS

Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528

Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967

COMPRESSIVE STRENGTH

Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786

COMPRESSOR BLADES

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

COMPRESSOR ROTORS

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

COMPRESSORS

Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610

Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1CU] c 31 N88-14223

COMPUTATION

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTER ANIMATION

Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

COMPUTER ASSISTED INSTRUCTION

System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

COMPUTER COMPONENTS

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1CU] c 60 N88-24169

COMPUTER DESIGN

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COMPUTER GRAPHICS

- System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

COMPUTER INFORMATION SECURITY

- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

COMPUTER NETWORKS

- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

COMPUTER PROGRAMMING

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

COMPUTER PROGRAMS

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

COMPUTER STORAGE DEVICES

- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342

- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

- High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

COMPUTER SYSTEMS DESIGN

- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

COMPUTER TECHNIQUES

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

COMPUTER VISION

- Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

COMPUTERIZED SIMULATION

- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

COMPUTERS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

CONCAVITY

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS

- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753

- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

CONCENTRIC CYLINDERS

- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

CONCENTRIC SPHERES

- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONCURRENT PROCESSING

- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

CONDENSATES

- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

CONDUCTING FLUIDS

- Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTION ELECTRONS

- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER

- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

CONDUCTIVITY

- Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

CONDUCTORS

- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

CONES

- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT

- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

CONFINEMENT

- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES

- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL SCANNING
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

CONSCIOUSNESS
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

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Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSTANTS
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

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[NASA-CASE-GSC-10306-1] c 15 N71-24694
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[NASA-CASE-LAR-10129-1] c 15 N73-25512
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[NASA-CASE-MFS-21046-1] c 14 N73-27377
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[NASA-CASE-LAR-10129-2] c 37 N74-20063
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[NASA-CASE-MSC-13054] c 54 N78-17677
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[NASA-CASE-ARC-11167-1] c 52 N81-25662

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[NASA-CASE-XGS-01593] c 03 N70-35408

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Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

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Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

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Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

CONTAMINANTS
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152

CONTAMINATION
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[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Biofilm monitoring coupon system
[NASA-CASE-MSC-21585-1] c 51 N91-13857
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340

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CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
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[NASA-CASE-XNP-04167-3] c 36 N77-19416
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
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[NASA-CASE-NPO-15111-1] c 36 N82-29589
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

CONTINUUM FLOW
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

CONTOUR SENSORS
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

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Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

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Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Failure detection and control means for improved drift performance of a gimbalized platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

CONTROL BOARDS
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

CONTROL DATA (COMPUTERS)
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

CONTROL EQUIPMENT
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Altitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Synchronous orbit battery cyclor
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Semi-active orbital debris sweeper
[NASA-CASE-MSC-21534-1] c 18 N90-26860

Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

CONTROL ROCKETS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

CONTROL RODS
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

CONTROL SIMULATION
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CONTROL STABILITY
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

CONTROL SURFACES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

CONTROL SYSTEMS DESIGN
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126

Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

CONTROL THEORY
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

CONTROL UNITS (COMPUTERS)
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

CONTROL VALVES

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

CONTROLLED ATMOSPHERES
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279

Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073

Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310

Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002

CONVECTION
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

CONVECTIVE FLOW
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVECTIVE HEAT TRANSFER
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095

Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVERGENCE
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

CONVERGENT NOZZLES
Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES
Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162

Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

CONVERSION
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEXITY
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

CONVEYORS
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

CONVOLUTION INTEGRALS
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COOLANTS
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

COOLERS
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-13581

COOLING
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

COOLING SYSTEMS

Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807

Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053

Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

COORDINATES

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

COPOLYMERIZATION

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

COPOLYMERS

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905

Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

COPPER

Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469

Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

COPPER CHLORIDES

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

COPPER COMPOUNDS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES

Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

CORDAGE

Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES

Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

CORK (MATERIALS)

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORNERS

Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-13735

CORRECTION

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341

CORRELATION

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

CORROSION

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

CORRUGATED PLATES
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786

CORRUGATING
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

COST ANALYSIS
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460

COST EFFECTIVENESS
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

COST REDUCTION
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

COUCHES
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERBALANCES
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

COUNTERS
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N91-15469

COUNTING CIRCUITS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Digital cardiachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

COUPLERS
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707

COUPLES
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-13723

COUPLING
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

COUPLING CIRCUITS
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422

COUPLINGS
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

COVARIANCE
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

COVERINGS
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

COWLINGS
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

CRACK OPENING DISPLACEMENT
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

CRACK PROPAGATION
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712

CRACKING (FRACTURING)
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

CRACKS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

CRANES

Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

CRASH LANDING

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

CREEP RUPTURE STRENGTH

Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B
Patent
[NASA-CASE-XLE-02082] c 17 N71-16026

Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

CREEP TESTS

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

CRITICAL EXPERIMENTS

Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

CRITICAL TEMPERATURE

Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264

CROSS CORRELATION

Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

CROSS FLOW

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

CROSS POLARIZATION

Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358

CROSSED FIELDS

Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134

Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562

CROSSLINKING

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276

Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352

Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982

Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881

A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

CRUCIBLES

Evaporant holder
[NASA-CASE-LAR-03105] c 15 N69-27483

CRUCIFORM WINGS

Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

CRUDE OIL

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

CRUSTAL FRACTURES

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

CRYOGENIC COOLING

Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605

Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917

Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946

Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

CRYOGENIC EQUIPMENT

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453

Dual stage check valve
[NASA-CASE-MS-13587-1] c 15 N73-30459

Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837

Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229

Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256

System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549

Low temperature latching solenoid
[NASA-CASE-MS-18106-1] c 33 N82-11357

Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368

Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

CRYOGENIC FLUID STORAGE

Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020

Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

CRYOGENIC FLUIDS

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492

Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330

Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629

Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074

Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467

Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992

Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443

Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864

Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486

Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

CRYOGENIC GYROSCOPES

Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

CRYOGENIC MAGNETS

Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890

CRYOGENIC ROCKET PROPELLANTS

- Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- CRYOGENIC STORAGE**
- Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- CRYOGENIC TEMPERATURE**
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- CRYOGENIC WIND TUNNELS**
- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- CRYOGENICS**
- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
- CRYOLITE**
- Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- CRYOSTATS**
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- CRYOTRAPPING**
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- CRYSTAL DEFECTS**
- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- CRYSTAL FILTERS**
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- CRYSTAL GROWTH**
- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359

- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- CRYSTAL LATTICES**
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
- CRYSTAL OPTICS**
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

CRYSTAL OSCILLATORS

- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- CRYSTAL RECTIFIERS**
- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- CRYSTAL STRUCTURE**
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- CRYSTALLINITY**
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- CRYSTALLIZATION**
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Novel polyimide compositions based on 4,4'-isophthaloyldiphenyl anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- CRYSTALS**
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- CUBIC LATTICES**
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- CUES**
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
- CUFFS**
- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- CULTURE TECHNIQUES**
- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Enhancement of in vitro guanylate propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131

- Bio-reactor cell culture process
[NASA-CASE-MSC-21293-1] c 51 N89-14666
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
- Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
- A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531
- CURIE TEMPERATURE**
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- CURING**
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Metal (2,4,4',4''-phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
- Noninvasive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
- New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- CURRENT AMPLIFIERS**
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- CURRENT DENSITY**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
- Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- CURRENT DISTRIBUTION**
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- CURRENT REGULATORS**
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- CURVATURE**
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- CURVE FITTING**
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- CURVED PANELS**
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- CUSHIONS**
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- CUTTERS**
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
- Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
- Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
- CUTTING**
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Power saw
[NASA-CASE-MSC-21469-1] c 37 N90-26340
- New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
- CYANATES**
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- CYCLES**
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
- CYCLIC ACCELERATORS**
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- CYCLIC COMPOUNDS**
Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- CYCLIC HYDROCARBONS**
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- CYCLIC LOADS**
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- CYCLOTRON RADIATION**
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
- CYCLOTRON RESONANCE**
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- CYCLOTRON RESONANCE DEVICES**
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- CYLINDRICAL ANTENNAS**
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
- CYLINDRICAL BODIES**
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
- CYLINDRICAL CHAMBERS**
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

CYLINDRICAL SHELLS

- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- CYSTS**
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- CYTOLOGY**
Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N89-25557
- CZOCHELSKI METHOD**
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

D

DAMAGE

- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18736-1] c 24 N83-13172
- Semi-active orbital debris sweeper
[NASA-CASE-MS-C-21534-1] c 18 N90-26860

DAMPERS (VALVES)

- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

DAMPING

- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
- Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

DATA ACQUISITION

- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- Adaptive data acquisition multiplexing system and method
[NASA-CASE-MS-C-21170-1] c 17 N91-14371

DATA COLLECTION PLATFORMS

- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION

- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

- Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
- Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N91-15469

DATA CONVERTERS

- Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
- High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION

- Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS

- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
- Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
- Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

DATA MANAGEMENT

- Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING

- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
- Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
- Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
- Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297
- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
- Real-time garbage collection for list processing
[NASA-CASE-MS-C-20964-1] c 60 N87-14863
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MS-C-20187-1] c 33 N87-25531
- Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
- Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

DATA PROCESSING EQUIPMENT

- Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
- Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
- Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MS-C-20258-1] c 60 N84-28492
- Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
- Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

DATA RECORDERS

- Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
- Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING

- System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
- Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
- Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
- Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
- On-film optical recording of camera lens settings
[NASA-CASE-MS-C-12363-1] c 14 N73-26431
- Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION

- Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-NXP-08832] c 08 N71-12506
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
- Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

DATA RETRIEVAL

- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING

- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- DATA SMOOTHING**
- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
- DATA STORAGE**
- Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
- System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
- Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Data storage, image tube type
[NASA-CASE-MS-C-14053-1] c 60 N74-12888
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384
- DATA STRUCTURES**
- Real-time garbage collection for list processing
[NASA-CASE-MS-C-20964-1] c 60 N87-14863
- DATA SYSTEMS**
- Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
- Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598
- DATA TRANSFER (COMPUTERS)**
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- DATA TRANSMISSION**
- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
- Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
- Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
- Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
- Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
- Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
- System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MS-C-20258-1] c 60 N84-28492
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
- DAWSONITE**
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- DEBRIS**
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Hypervelocity impact shield
[NASA-CASE-MS-C-21420-1] c 18 N90-26858
- DECAY RATES**
- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- DECELERATION**
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- DECIMALS**
- High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
- DECISION MAKING**
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-13596
- DECODERS**
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- BCD to decimal decoder Patent
[NASA-CASE-KKS-06167] c 08 N71-24890
- Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
- Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MS-C-14557-1] c 32 N76-16249
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040
- DECODING**
- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
- Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598
- Differential pulse code modulation
[NASA-CASE-MS-C-12506-1] c 32 N77-12239
- Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- DECOMMUTATORS**
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- DECONTAMINATION**
- Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- DECOUPLING**
- Two fault tolerant toggle-hook release
[NASA-CASE-MS-C-21671-1] c 37 N91-13723
- DEEP SPACE NETWORK**
- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- DEFECTS**
- Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- DEFLECTION**
- Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
- DEFLECTORS**
- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- DEFOCUSING**
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- DEFORMATION**
- Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- DEGASSING**
- Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652
- DEGREES OF FREEDOM**
- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- DEHUMIDIFICATION**
- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- DEHYDRATED FOOD**
- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-C-13540-1] c 05 N72-33096
- DEHYDRATION**
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- DEICERS**
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- DEIONIZATION**
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- DELAMINATING**
- Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

DELAY CIRCUITS

- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Pseudonoise code tracking loop
[NASA-CASE-MS-C-18035-1] c 32 N81-15179
- Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- Vibration analyzer
[NASA-CASE-MS-C-21408-1] c 37 N91-14607

DELAY LINES

- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION

- Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MS-C-13855-1] c 35 N74-17885

DELTA WINGS

- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

DEMAGNETIZATION

- Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMODULATION

- Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

DEMODULATORS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MS-C-12165-1] c 07 N71-33696
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Unbalanced quadrature demodulator
[NASA-CASE-MS-C-14840-1] c 32 N77-24331
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- Self-calibrating threshold detector
[NASA-CASE-MS-C-16370-1] c 35 N81-19427
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550

DENDRITIC CRYSTALS

- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION

- Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18737-1] c 24 N83-13171

DENSITOMETERS

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)

- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION

- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT

- Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

DENTISTRY

- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXIDIZING

- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

DEOXYGENATION

- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT

- Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Payload deployment method and system
[NASA-CASE-MS-C-21330-1] c 16 N88-24660
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138

DEPOSITION

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

DEPOSITS

- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH

- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

DEPTH MEASUREMENT

- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DESCENT

- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS

- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- Snap-in compressible biomedical electrode
[NASA-CASE-MS-C-14623-1] c 52 N77-28717

DESORPTION

- Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

DESTRUCTIVE TESTS

- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

DESULFURIZING

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

DETECTION

- Heated element fluid flow sensor Patent
[NASA-CASE-MS-C-12084-1] c 12 N71-17569
- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N86-27431
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

DETECTORS

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575

- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Multiple pass reimagining optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- DETERGENTS**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- DETONATION**
- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- DETONATION WAVES**
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- DEUTERIUM**
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
- DEW POINT**
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- DIAGNOSIS**
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
- Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865
- Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
- DIAGRAMS**
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- DIALYSIS**
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- DIAMETERS**
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- DIAMINES**
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Polynamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphoryl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Polynamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- DIAMONDS**
- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- DIAPHRAGMS (MECHANICS)**
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
- Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-13580
- DIATOMIC GASES**
- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- DICHROISM**
- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
- DICKE RADIOMETERS**
- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- DIDYMIUM**
- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
- DIELECTRIC PROPERTIES**
- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- DIELECTRICS**
- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- DIELS-ALDER REACTIONS**
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
- DIENES**
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- DIES**
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
- Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
- DIESEL ENGINES**
- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- DIESEL FUELS**
- Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098
- DIETS**
- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
- DIFFERENCES**
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- DIFFERENTIAL AMPLIFIERS**
- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25668-1] c 33 N86-20670

DIFFERENTIAL INTERFEROMETRY

- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- DIFFERENTIAL PRESSURE**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- DIFFERENTIAL PULSE CODE MODULATION**
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N91-15469
- DIFFERENTIATION (BIOLOGY)**
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- DIFFERENTIATORS**
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
- DIFFRACTION**
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- DIFFRACTION PATTERNS**
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-14000
- DIFFRACTOMETERS**
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
- DIFFUSE RADIATION**
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- DIFFUSERS**
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- DIFFUSION**
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- DIFFUSION LENGTH**
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- DIFFUSION PUMPS**
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- DIFFUSION WELDING**
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- DIFFUSIVITY**
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- DIGITAL COMMAND SYSTEMS**
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

- Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
- DIGITAL COMPUTERS**
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- DIGITAL DATA**
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- DIGITAL FILTERS**
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
- DIGITAL INTEGRATORS**
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- DIGITAL RADAR SYSTEMS**
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- DIGITAL SPACECRAFT TELEVISION**
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS

- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
- Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
- DIGITAL TECHNIQUES**
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-KLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

- Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
- Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975
- DIGITAL TO ANALOG CONVERTERS**
- Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
- Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
- Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
- DIGITAL TRANSDUCERS**
- Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
- DIISOCYANATES**
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- DILUTION**
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- DIMENSIONAL MEASUREMENT**
- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- DIMENSIONS**
- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
- DIODES**
- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
- Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- DIPHENYL COMPOUNDS**
- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- DIPOLE ANTENNAS**
- Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
- Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- DIPPING**
- Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
- DIRECT CURRENT**
- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
- A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
- DIRECT LIFT CONTROLS**
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- DIRECT POWER GENERATORS**
- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- DIRECTIONAL ANTENNAS**
- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- DIRECTIONAL CONTROL**
- Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- DIRECTIONAL SOLIDIFICATION (CRYSTALS)**
- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- DIRECTIONAL STABILITY**
- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
- DIRECTIVITY**
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- DISCONNECT DEVICES**
- Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
- Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
- Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
- Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

DISCONTINUITY
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

DISKS
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

DISPENSERS
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

DISPERSING
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

DISPLACEMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Polyimidoazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

DISPLACEMENT MEASUREMENT
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

DISPLAY DEVICES
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

DISSIPATION
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

DISSOCIATION
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

DISTANCE

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

DISTANCE MEASURING EQUIPMENT
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DISTILLATION EQUIPMENT
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED PROCESSING
Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

DISTRIBUTION (PROPERTY)
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS
Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

DOORS
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPES
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOPPLER EFFECT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975

Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

DOPPLER RADAR
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

DOSIMETERS
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DOWNLINKING
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

DRAG CHUTES
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138

DRAG MEASUREMENT
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

DRAINAGE
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-13580

DRIFT (INSTRUMENTATION)
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

DRILLING
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DRILLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

DRUGS
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

DRY HEAT
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

DRYING
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DRYING APPARATUS
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

DUCTED FANS
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DUCTILITY
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

DUCTS
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

DURABILITY
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500

DUST COLLECTORS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

DYE LASERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

DYNAMIC CHARACTERISTICS
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

DYNAMIC CONTROL
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

DYNAMIC LOADS
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

DYNAMIC MODELS
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

DYNAMIC MODULUS OF ELASTICITY
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

DYNAMIC RESPONSE
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DYNAMIC STRUCTURAL ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

DYNAMIC TESTS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

DYNAMICAL SYSTEMS
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

DYNAMOMETERS
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

EARPHONES
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953

EARTH ATMOSPHERE
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

EARTH CRUST
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

EARTH IONOSPHERE
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

EARTH ORBITS

- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
- Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
- ECCENTRICITY**
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
- ECCENTRICS**
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- ECHELLE GRATINGS**
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- ECHO SOUNDING**
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- ECHOES**
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- EDDY CURRENTS**
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- EDGES**
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- EDITING**
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- EDUCATION**
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
- System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
- EFFICIENCY**
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
- EFFLUENTS**
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- EGRESS**
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
- EJECTION**
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
- EJECTION SEATS**
Device for separating occupant from an ejection seat
Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
- EJECTORS**
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Device for separating occupant from an ejection seat
Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- ELASTIC BODIES**
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- ELASTIC DEFORMATION**
Instrument for measuring torsional creep and recovery
Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- ELASTIC MEDIA**
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- ELASTIC PROPERTIES**
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- ELASTIC SHEETS**
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- ELASTOMERS**
Metal valve pintle with encapsulated elastomeric body
Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Bonded elastomeric seal for electrochemical cells
Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

- Device for applying constant pressure to a surface
[NASA-CASE-GSC-12320-1] c 37 N91-13734
- ELBOW (ANATOMY)**
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- ELECTRIC ARCS**
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
- ELECTRIC AUTOMOBILES**
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- ELECTRIC BATTERIES**
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Method and apparatus for battery charge control
Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Coulometer and third electrode battery charging circuit
Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Synchronous orbit battery cyclers
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041
- Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
- ELECTRIC BRIDGES**
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- ELECTRIC CELLS**
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084

Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

ELECTRIC CHOPPERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

ELECTRIC COILS
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

ELECTRIC CONDUCTORS
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTRIC CONNECTORS
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Four-terminal electrical testing device --- initiator bridewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

ELECTRIC CONTACTS
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-13803

ELECTRIC CONTROL
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

ELECTRIC CURRENT
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246

Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

ELECTRIC DISCHARGES
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

ELECTRIC ENERGY STORAGE
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

ELECTRIC EQUIPMENT
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

ELECTRIC EQUIPMENT TESTS

- Test fixture for pellet-like electrical elements Patent
[NASA-CASE-XNP-06032] c 09 N69-21926
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH

- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

ELECTRIC FIELDS

- Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

ELECTRIC FILTERS

- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES

- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

ELECTRIC FUSES

- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

ELECTRIC GENERATORS

- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- ELECTRIC IGNITION**
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- ELECTRIC MOTOR VEHICLES**
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- ELECTRIC MOTORS**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

ELECTRIC NETWORKS

- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

ELECTRIC POTENTIAL

- Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

ELECTRIC POWER

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376

Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

ELECTRIC POWER SUPPLIES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

ELECTRIC POWER TRANSMISSION

Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

ELECTRIC RELAYS

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897

Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

ELECTRIC TERMINALS

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596

Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491

Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256

Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

ELECTRIC WIRE

Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330

Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393

Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491

Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226

Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

ELECTRICAL ENGINEERING

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

ELECTRICAL FAULTS

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

ELECTRICAL IMPEDANCE

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

ELECTRICAL INSULATION

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

ELECTRICAL MEASUREMENT

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- ELECTRICAL PROPERTIES**
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
- ELECTRICAL RESISTANCE**
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- ELECTRICAL RESISTIVITY**
- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
- Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
- High speed magneto-resistive random access memory
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- Silicon containing electroconductive polymers and structures made therefrom
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- Heat transfer device and method of making the same
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- ELECTRICITY**
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- Heat exchanger for electrothermal devices
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- ELECTRO-OPTICS**
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- Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
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- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
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- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
- Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
- Pocket ECG electrode
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[NASA-CASE-NPO-11117-1] c 52 N81-14612
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- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
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- ELECTROCHEMICAL CELLS**
- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
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[NASA-CASE-LEW-12513-1] c 25 N79-22235
- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
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- Apparatus for electrolytically tapered or contoured cavities
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- Electrochemical detection device --- for use in microbiology
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- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738
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[NASA-CASE-XNP-01959] c 26 N71-23043
- Method of producing crystalline materials
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- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
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- ELECTRODES**
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- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11129

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-90153-2] c 05 N72-25120

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121

Compressible biomedical electrode
[NASA-CASE-MS-13648] c 05 N72-27103

Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246

Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Porous electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MS-14339-1] c 05 N75-24716

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Snap-in compressible biomedical electrode
[NASA-CASE-MS-14623-1] c 52 N77-28717

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753

Spillage detector for liquid chromatography systems
[NASA-CASE-MS-20206-1] c 25 N86-27431

Edge geometry superconducting tunnel junctions utilizing an Nbn/MgO/Nbn thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

ELECTRODIALYSIS
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

ELECTROLUMINESCENCE
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

ELECTROLYSIS
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

ELECTROLYTES
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

Compressible biomedical electrode
[NASA-CASE-MS-13648] c 05 N72-27103

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796

ELECTROLYTIC CELLS
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MS-12568-1] c 24 N76-14204

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Cell and method for electrolysis of water and anode
[NASA-CASE-MS-16394-1] c 28 N81-24280

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

ELECTROMAGNETIC ABSORPTION
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

ELECTROMAGNETIC FIELDS
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701

Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240

Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

Magnetomotive metal working device Patent
[NASA-CASE-XNP-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE
Sealed cabinetry Patent
[NASA-CASE-MS-12168-1] c 09 N71-18600

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

ELECTROMAGNETIC MEASUREMENT
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

ELECTROMAGNETIC PROPERTIES
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

ELECTROMAGNETIC PROPULSION
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Induction-type metal detector with increased scanning
area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

ELECTROMAGNETIC SHIELDING
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION
Method and apparatus for determining electromagnetic
characteristics of large surface area passive reflectors
Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

ELECTROMAGNETS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Position sensing device employing misaligned magnetic
field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic spin reduction system for free spinning
objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Permanent magnet flux-biased magnetic actuator with
flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

ELECTROMECHANICAL DEVICES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Apparatus for coupling a plurality of ungrounded circuits
to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Apparatus for controlling the velocity of an
electromechanical drive for interferometers and the like
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[NASA-CASE-XGS-03532] c 14 N71-17627
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Transverse piezoresistance and pinch effect
electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Ferroluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Magnetic field control --- electromechanical torquing
device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Two-dimensional scanner apparatus --- flaw detector in
small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

ELECTROMETERS

Vibrating element electrometer with output signal
magnified over input signal by a function of the mechanical
Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION
Electromigration process for the purification of molten
silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Three-phase power factor controller with induced EMF
sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTRON ATTACHMENT
High resolution threshold photoelectron spectroscopy
by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Reversal electron attachment ionizer for detection of
trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

ELECTRON BEAM WELDING
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Device for preventing high voltage arcing in electron
beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Method and means for an improved electron beam
scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Electron beam instrument for measuring electric fields
Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Apparatus for determining the deflection of an electron
beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Electron beam controller --- using magnetic field to
retocus spent electron beam in microwave oscillator
tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
Very high intensity light source using a cathode ray tube
--- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Low energy electron magnetometer using a
monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
Isotope separation using tuned laser and electron
beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Trochoidal analysis of scattered electrons in a merged
electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

ELECTRON BOMBARDMENT
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
Device for measuring electron-beam intensities and for
subjecting materials to electron irradiation in an electron
microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Electronic cathode having a brush-like structure and a
relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Apparatus ad method for quiescent containerless
processing of high temperature metals and alloys in low
gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Surface modification using low energy ground state ion
beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ELECTRON CAPTURE

Multistage depressed collector for dual mode operation
--- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION
Measurement of plasma temperature and density using
radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

ELECTRON ENERGY
Low energy electron magnetometer using a
monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY
Device for measuring electron-beam intensities and for
subjecting materials to electron irradiation in an electron
microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

ELECTRON IRRADIATION
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES
Device for measuring electron-beam intensities and for
subjecting materials to electron irradiation in an electron
microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Method of forming aperture plate for electron
microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Control system for ruling blazed, aberration corrected
diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N91-13692

ELECTRON MICROSCOPY
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

ELECTRON PHOTON CASCADES
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

ELECTRON PLASMA
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SCATTERING
Trochoidal analysis of scattered electrons in a merged
electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

ELECTRON SOURCES
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON TRANSFER
Process for reducing secondary electron emission
Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
All-optical photochromic spatial light modulators based
on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

ELECTRON TRANSITIONS
Diatomic infrared gasdynamic laser --- for producing
different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES
Direct radiation cooling of the collector of linear beam
tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ion sputter textured graphite --- anode collector plates
in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTRON TUNNELING
Doped Josephson tunneling junction for use in a
sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Control system for ruling blazed, aberration corrected
diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N91-13692

ELECTRONIC CONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

ELECTRONIC EQUIPMENT

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486

Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261

Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461

Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

ELECTRONIC EQUIPMENT TESTS

Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270

Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

ELECTRONIC FILTERS

Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

ELECTRONIC MODULES

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052

Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918

Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365

Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528

Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

ELECTRONIC PACKAGING

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431

Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522

Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243

Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918

Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

ELECTRONIC RECORDING SYSTEMS

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

ELECTRONIC TRANSDUCERS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONS

Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

Slow position beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

ELECTROPHORESIS

Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104

Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169

Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715

Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

ELECTROPHOTOMETERS

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING

Method of plating copper on aluminum Patent
[NASA-CASE-LAR-08966-1] c 17 N71-25903

Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC CHARGE

Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

ELECTROSTATIC ENGINES

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422

Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ELECTROSTATIC GENERATORS

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872

ELECTROSTATIC PRECIPITATORS

Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192

Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

ELECTROSTATIC PROBES

- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- ELECTROSTATIC PROPULSION**
- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
- ELECTROSTATIC SHIELDING**
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- ELECTROSTATICS**
- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
- Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-13803
- Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- ELECTROTHERMAL ENGINES**
- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
- Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- ELEVATION**
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
- ELEVATORS (LIFTS)**
- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
- ELEVONS**
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- ELLIPSES**
- Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079
- ELLIPSOMETERS**
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- ELONGATION**
- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262
- ELUTION**
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
- EMBEDDING**
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Transducer holder and method of making
[NASA-CASE-LAR-14027-1] c 35 N91-13693
- EMBRITTELEMENT**
- Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
- EMERGENCIES**
- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
- Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138

- Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142
- EMERGENCY BREATHING TECHNIQUES**
- Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- EMERGENCY LIFE SUSTAINING SYSTEMS**
- Orbital escape device Patent
[NASA-CASE-XMS-06182] c 31 N71-28851
- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- EMERGENCY LOCATOR TRANSMITTERS**
- Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374
- EMISSION SPECTRA**
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- EMITTANCE**
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472
- Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
- EMITTERS**
- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
- EMULSIONS**
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- ENAMELS**
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
- ENCAPSULATING**
- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
- ENCLOSURES**
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- END EFFECTORS**
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137
- Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
- Direct drive robotic hand
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- Spiral lead platen robotic end effector
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- Multi-fingered robotic hand
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- Rolling friction robot fingers
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- Double swivel toggle release
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- ENDOSCOPES**
- Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
- Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
- ENDOTHERMIC REACTIONS**
- Ablation sensor
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- ENEMY PERSONNEL**
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- ENERGY ABSORPTION**
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
- Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
- Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- ENERGY BANDS**
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- Tailorable infrared sensing device with strain layer superlattice structure
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- ENERGY CONSERVATION**
- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
- ENERGY CONSUMPTION**
- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
- ENERGY CONVERSION**
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Solar energy collection system
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- Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
- Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
- ENERGY CONVERSION EFFICIENCY**
- Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
- Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Thermionic energy converters
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- Bidirectional control system for energy flow in solar powered flywheel
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Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
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[NASA-CASE-LAR-11645-1] c 02 N77-10001
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
- ENERGY DISTRIBUTION**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- ENERGY GAPS (SOLID STATE)**
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[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
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[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263
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[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
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[NASA-CASE-NPO-14078-1] c 72 N80-14877
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- ENERGY POLICY**
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[NASA-CASE-MFS-23167-1] c 44 N76-31667
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
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[NASA-CASE-NPO-13581-2] c 44 N78-31525
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
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[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar heated fluidized bed gasification system
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[NASA-CASE-NPO-15767-1] c 23 N84-16255
- ENERGY SOURCES**
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
- ENERGY STORAGE**
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
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[NASA-CASE-NPO-11156-2] c 33 N75-31331
- Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
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[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- ENERGY TECHNOLOGY**
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[NASA-CASE-LEW-12541-1] c 44 N78-25529
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[NASA-CASE-NPO-13763-1] c 44 N78-33526
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[NASA-CASE-NPO-13904-1] c 25 N79-11152
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[NASA-CASE-LEW-12236-2] c 44 N79-14528
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[NASA-CASE-XGS-00829-1] c 44 N79-19447
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[NASA-CASE-NPO-13579-2] c 44 N79-24433
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- ENERGY TRANSFER**
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- ENGINE ANALYZERS**
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- ENGINE CONTROL**
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
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[NASA-CASE-ARC-10456-1] c 05 N75-12930
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
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[NASA-CASE-LEW-12907-2] c 07 N81-19115
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[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- ENGINE COOLANTS**
Injector-valve device Patent
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Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- ENGINE DESIGN**
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
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[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
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[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- ENGINE FAILURE**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- ENGINE INLETS**
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- ENGINE MONITORING INSTRUMENTS**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
- ENGINE NOISE**
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- ENGINE PARTS**
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
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[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
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[NASA-CASE-LAR-13435-1] c 37 N88-23981
- ENGINE STARTERS**
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- ENGINE TESTS**
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- ENGINEERING DRAWINGS**
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[NASA-CASE-XAC-00074] c 15 N70-34817
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[NASA-CASE-FRC-10063] c 01 N71-12217
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[NASA-CASE-XLA-01090] c 07 N71-12389
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[NASA-CASE-XMF-03498] c 15 N71-15986
- ENGRAVING**
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- ENTHALPY**
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- ENTRAINMENT**
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- ENUMERATION**
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- ENVIRONMENT SIMULATION**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- ENVIRONMENT SIMULATORS**
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- ENVIRONMENTAL CONTROL**
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

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Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

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System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
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[NASA-CASE-LAR-13680-1] c 35 N87-25561

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Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
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[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Fixture for environmental exposure of structural materials under compression load
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Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

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[NASA-CASE-XGS-05533] c 04 N69-27487
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[NASA-CASE-GSC-11092-2] c 04 N73-27052

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Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

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[NASA-CASE-MSC-19514-1] c 37 N79-20377

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[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

EPOXY COMPOUNDS
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Cellular thermosetting fluorodiepoxide polymers
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Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

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Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2,4,4',4'',4''') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

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Kinesimetric method and apparatus
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Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

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Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
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[NASA-CASE-XMF-06589] c 05 N71-23159
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

EQUIPOTENTIALS
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

ERGOMETERS
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014

Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

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Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

ERROR ANALYSIS
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

ERROR CORRECTING CODES
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Read-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

ERROR CORRECTING DEVICES
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Failure detection and control means for improved drift performance of a gimbal platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

ERROR DETECTION CODES
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

ERROR SIGNALS
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

ERRORS
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1-CU] c 74 N86-33138
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

ESCAPE CAPSULES
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

ESCAPE SYSTEMS

- Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
- Emergency escape system Patent
[NASA-CASE-KKS-07814] c 15 N71-27067
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

ESCHERICHIA

- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

ESTERS

- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

ESTIMATING

- Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
- Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
- Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

ETCHING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

ETHANE

- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

ETHERS

- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
- Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

ETHYL COMPOUNDS

- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

ETHYLENE OXIDE

- Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

EUTECTIC ALLOYS

- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

EVACUATING (VACUUM)

- Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111

EVAPORATION

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
- Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

EVAPORATIVE COOLING

- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

EVAPORATORS

- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593

EXAMINATION

- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

EXCHANGING

- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

EXCITATION

- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

EXCLUSION

- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

EXHAUST EMISSION

- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

EXHAUST GASES

- Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129

EXHAUST NOZZLES

- Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
- Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

EXOTHERMIC REACTIONS

- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

EXPANDABLE STRUCTURES

- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
- Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
- Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

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- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

EXPERIMENT DESIGN

- Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
- G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPERT SYSTEMS

- Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

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General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

EXPIRED AIR
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

EXPLOSIONS
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490

Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

EXPLOSIVE FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

EXPLOSIVE WELDING
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326

Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

EXPLOSIVES
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

EXPONENTIAL FUNCTIONS
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322

Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

EXPULSION
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-13580

EXPULSION BLADDERS
Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

EXTENSOMETERS
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864

Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORE SEPARATION

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

EXTERNAL STORES
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTRACTION
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

EXTRAVEHICULAR ACTIVITY
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336

Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653

Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728

Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

EXTREME ULTRAVIOLET RADIATION
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

EXTREMELY LOW RADIO FREQUENCIES
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

EXTRUDING
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464

Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

EYE (ANATOMY)
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062

Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865

EYE DISEASES
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

EYE EXAMINATIONS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

EYEPIECES
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

FABRICATION

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056

Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522

Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726

Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635

Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835

Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Resonant isolator for maser amplifier
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Contactless pellet fabrication
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Method of making a light weight battery plaque
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High resistance and raised modulus carbon fibers
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GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N80-23700

Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

- Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
- Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
- FABRICS**
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
- Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Hot melt adhesive attachment pad
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- Tapered, tubular polyester fabric
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- Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
- FABRY-PEROT INTERFEROMETERS**
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- FACSIMILE COMMUNICATION**
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- FACTORIAL DESIGN**
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- FAIL-SAFE SYSTEMS**
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- FAILURE**
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- FAILURE ANALYSIS**
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- FAILURE MODES**
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
- Fatigue testing apparatus
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- FAIRINGS**
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- FALLING SPHERES**
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[NASA-CASE-XMF-05844] c 14 N71-17587
- FAR INFRARED RADIATION**
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- FAR ULTRAVIOLET RADIATION**
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- FARADAY EFFECT**
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- FAST FOURIER TRANSFORMATIONS**
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- FASTENERS**
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N90-26859
- Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-13723
- FATIGUE (MATERIALS)**
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- FATIGUE LIFE**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- FATIGUE TESTING MACHINES**
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- FATIGUE TESTS**
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
- FATS**
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- FAULT TOLERANCE**
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
- Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-13723
- FECES**
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- FEED SYSTEMS**
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- FEEDBACK**
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
- Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- FEEDBACK AMPLIFIERS**
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- FEEDBACK CIRCUITS**
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

FEEDBACK CONTROL

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033

A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049

Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428

The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428

System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140

Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340

Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557

Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796

FEEDBACK FREQUENCY MODULATION

Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372

Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205

Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

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Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778

Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718

FEEDFORWARD CONTROL

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384

FEET (ANATOMY)

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

FELTS

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

FEMALES

Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

FERMENTATION

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

FERRITES

Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

FERROFLUIDS

Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

FERROMAGNETIC FILMS

High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

FERROMAGNETIC MATERIALS

Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

FERROMAGNETISM

High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

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Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

FIBER COMPOSITES

Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062

Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296

Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384

Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829

Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131

Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623

Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539

Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196

FIBER OPTICS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448

Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002

Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874

FIBER RELEASE

Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH

High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

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Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456

Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150

Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320

FIELD EFFECT TRANSISTORS

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

- Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- Stored charge transistor
[NASA-CASE-NPO-11556-2] c 33 N75-31331
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
- FIELD EMISSION**
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- FIELD OF VIEW**
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153
- EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- FILAMENT WINDING**
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- FILAMENTS**
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
- FILLERS**
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
- FILLING**
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- FILM COOLING**
Multilist film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- FILM THICKNESS**
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- FILMS**
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
- FILTERS**
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- FILTRATION**
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N90-27113
- FINGERS**
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261
- FINS**
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- FIRE EXTINGUISHERS**
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- FIRE PREVENTION**
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- FIREPROOFING**
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
- Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- FIRES**
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- FIRING (IGNITING)**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- FITTING**
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
- FITTINGS**
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
- FIXED WINGS**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- FIXTURES**
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- FLAME PROBES**
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- FLAME RETARDANTS**
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- The 1-(diorganooxy phosphonyl) methyl-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

FLAME SPRAYING

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

FLAME TEMPERATURE

- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

FLAMES

- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

FLAMMABILITY

- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MS-14903-2] c 27 N80-10358
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MS-16074-1] c 27 N80-26446
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

FLANGES

- Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MS-19372-1] c 39 N76-31562

FLAPS (CONTROL SURFACES)

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

FLARED BODIES

- Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389

FLASH LAMPS

- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

FLAT CONDUCTORS

- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

FLAT PLATES

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

FLEXIBILITY

- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MS-11072] c 54 N74-32546
Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MS-20162-1] c 37 N87-17036
Method of making a flexible diaphragm
[NASA-CASE-MS-20797-1] c 37 N87-23981
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MS-21211-1] c 18 N89-28553
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

FLEXIBLE BODIES

- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MS-12243-1] c 05 N71-24728
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116

FLEXIBLE WINGS

- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038

FLEXING

- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

FLIGHT

- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

FLIGHT ALTITUDE

- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sideloading laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

FLIGHT CLOTHING

- Absorbent product and articles made therefrom
[NASA-CASE-MS-18223-2] c 54 N84-11758

FLIGHT CONTROL

- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MS-12394-1] c 08 N74-10942
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

FLIGHT CREWS

- Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

FLIGHT INSTRUMENTS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

FLIGHT PATHS

- Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

FLIGHT RECORDERS

- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FLIGHT SAFETY

- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

FLIGHT SIMULATION

- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

FLIGHT SIMULATORS

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Sideloading laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

FLIGHT TESTS

Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING

Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES

Leading edge curvature based on convective heating
Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLOAT ZONES

Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

FLOATING

Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS

Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS

Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

FLOTATION

Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS

Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW DIRECTION INDICATORS

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTORTION

Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW DISTRIBUTION

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

FLOW MEASUREMENT
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

FLOW REGULATORS

Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-13657
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

FLOW RESISTANCE

Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

FLOW STABILITY

Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

FLOW VELOCITY

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

FLOW VISUALIZATION

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

FLOWMETERS

Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
- FLUID AMPLIFIERS**
- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- FLUID DYNAMICS**
- Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- FLUID FILLED SHELLS**
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- FLUID FILMS**
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- FLUID FILTERS**
- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
- Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- FLUID FLOW**
- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
- Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
- Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
- Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
- Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
- Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
- Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999
- FLUID INJECTION**
- Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
- Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
- FLUID JETS**
- Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
- FLUID LOGIC**
- Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
- FLUID MANAGEMENT**
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- FLUID MECHANICS**
- Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
- Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
- Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
- FLUID POWER**
- Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
- Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- FLUID PRESSURE**
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796
- FLUID ROTOR GYROSCOPES**
- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- FLUID SWITCHING ELEMENTS**
- Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
- FLUID TRANSMISSION LINES**
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- FLUIDIC CIRCUITS**
- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- FLUIDICS**
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
- Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
- FLUIDIZED BED PROCESSORS**
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- FLUIDS**
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
- Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385

Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

FLUORESCENCE
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947

Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585

Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

FLUORIDES
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121

Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320

Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

FLUORINATION
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

FLUORINE
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107

Process for the preparation of fluorine containing crosslinked, elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

FLUORINE COMPOUNDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191

Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491

FLUORO COMPOUNDS
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101

Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497

FLUOROCARBONS
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

FLUOROHYDROCARBONS
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

FLUOROPOLYMERS

Perfluoroalkyl polytriazines containing pendent iodo difluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

FLUTTER

Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811

Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004

Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

FLUTTER ANALYSIS

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

FLUX (RATE)

Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

FLUX DENSITY

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602

Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

FLUXES

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688

Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

FLYING PLATFORMS

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-13787

FLYWHEELS

Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608

Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422

Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527

Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

FOAMS

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367

Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816

Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387

Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

FOCAL PLANE DEVICES

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026

Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329

FOCI

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

FOCUSING

X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027

Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445

Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616

RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350

Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002

FOG

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

FOILS (MATERIALS)

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

FOLDING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180

FOLDING STRUCTURES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580

Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041

Radiator deployment actuator Patent
[NASA-CASE-MS-C-11817-1] c 15 N71-26611

Foldable construction block
[NASA-CASE-MS-C-12233-1] c 15 N72-25454

Folding structure fabricated of rigid panels
[NASA-CASE-XHO-02146] c 18 N75-27040

Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259

Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

Shuttle-launch triangular space station
[NASA-CASE-MS-C-20676-1] c 18 N86-24729

Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

Foldable self-erecting joint
[NASA-CASE-MS-C-20635-1] c 18 N87-14373

Sun shield
[NASA-CASE-MS-C-20162-1] c 37 N87-17036

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

FOOD
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

FOOTPRINTS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

FORCE
Ferroluic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

FORCE DISTRIBUTION
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466

Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Impact monitoring apparatus
[NASA-CASE-MS-C-15626-1] c 14 N72-25411

Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463

Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

Linear force device
[NASA-CASE-MS-C-20549-2] c 35 N88-24927

FORCED VIBRATION
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

FOREBODIES
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

FORMALDEHYDE
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330

Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836

Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522

Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920

Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371

Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461

Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837

Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MS-C-19693-1] c 26 N78-24333

Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-C-18430-1] c 37 N82-24491

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

FOSSIL FUELS
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

FOUNDATIONS
Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454

Adjustable securing base
[NASA-CASE-MS-C-19666-1] c 37 N78-17383

Space station erectable manipulator placement system
[NASA-CASE-MS-C-21096-1] c 18 N89-12621

FOURIER TRANSFORMATION
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

FRACTIONATION
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184

Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N86-27431

FRACTURE MECHANICS
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

FRACTURE STRENGTH
Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575

Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

FRAMES
Articulated multiple couch assembly Patent
[NASA-CASE-MS-C-11253] c 05 N71-12343

Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-00604] c 05 N71-23096

Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749

Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396

Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

FRAMING CAMERAS
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

FREE WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-C-13540-1] c 05 N72-33096

FREEZING
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

FREQUENCIES
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194

High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

FREQUENCY ANALYZERS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692

Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583

Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

Vibration analyzer
[NASA-CASE-MS-C-21408-1] c 37 N91-14607

FREQUENCY CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995

Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790

Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427

- Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- FREQUENCY CONVERTERS**
- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- FREQUENCY DISCRIMINATORS**
- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22695
- Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
- FREQUENCY DISTRIBUTION**
- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- FREQUENCY DIVIDERS**
- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- FREQUENCY DIVISION MULTIPLEXING**
- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
- FREQUENCY MEASUREMENT**
- Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- FREQUENCY MODULATION**
- Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
- Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HON-10654-1] c 16 N73-13489
- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
- Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
- FREQUENCY MULTIPLIERS**
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- FREQUENCY RANGES**
- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
- FREQUENCY SCANNING**
- Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- FREQUENCY SHIFT**
- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- FREQUENCY SHIFT KEYING**
- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- FREQUENCY STABILITY**
- Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- FREQUENCY STANDARDS**
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- FREQUENCY SYNCHRONIZATION**
- Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- FREQUENCY SYNTHESIZERS**
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- FRICTION**
- Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
- Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
- FRICTION DRAG**
- Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
- FRICTION FACTOR**
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342
- FRICTION MEASUREMENT**
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
- FRICTION REDUCTION**
- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- FRICTIONLESS ENVIRONMENTS**
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
- FROST**
- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- FROZEN FOODS**
- Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- FUEL CAPSULES**
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- FUEL CELL POWER PLANTS**
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- FUEL CELLS**
- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904

- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

FUEL COMBUSTION

- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL COMBUSTION

- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073

FUEL CONTROL

- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

FUEL FLOW

- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

FUEL FLOW REGULATORS

- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL GAGES

- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

FUEL INJECTION

- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
- Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130

FUEL OILS

- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106

FUEL PUMPS

- Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058

FUEL SYSTEMS

- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

FUEL TANK PRESSURIZATION

- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

FUEL TANKS

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

FUEL VALVES

- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426

FUEL-AIR RATIO

- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FUELS

- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

FUNCTION GENERATORS

- Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

FURABLE ANTENNAS

- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
- Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

FURNACES

- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

FUSELAGES

- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

FUSION (MELTING)

- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

FUSION WELDING

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

G**GADOLINIUM**

- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

GALILEO PROJECT

- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

GALLIUM

- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

GALLIUM ARSENIDES

- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192

- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
- GALLIUM PHOSPHIDES**
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- GALVANIC SKIN RESPONSE**
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- GAMMA RAY SPECTROMETERS**
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N88-32659
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- GAMMA RAYS**
- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- GANTRY CRANES**
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- GAPS**
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- GARMENTS**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
- Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
- GAS ANALYSIS**
- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
- Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587
- GAS BAGS**
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- GAS BEARINGS**
- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
- Silt regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
- Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- GAS CHROMATOGRAPHY**
- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- GAS COMPOSITION**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- GAS COOLED REACTORS**
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- GAS COOLING**
- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- GAS DENSITY**
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- GAS DETECTORS**
- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
- GAS DISCHARGE TUBES**
- Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
- GAS DISCHARGES**
- Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
- GAS EVOLUTION**
- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
- GAS EXPANSION**
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477

Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

GAS FLOW
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340

GAS GENERATORS
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

GAS GUNS
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Solid sorbent air sampler
[NASA-CASE-MSC-20853-1] c 35 N86-26595

GAS IONIZATION

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

GAS JETS
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

GAS LUBRICANTS
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

GAS MIXTURES
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

GAS PIPES
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GAS PRESSURE
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681

Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

GAS STREAMS
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

GAS TUNGSTEN ARC WELDING
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

GAS TURBINE ENGINES
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- GAS TURBINES**
- Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- GAS VALVES**
- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
- Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
- Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
- GAS WELDING**
- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
- Grain refinement control in TiG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- GAS-LIQUID INTERACTIONS**
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- GAS-METAL INTERACTIONS**
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- GASDYNAMIC LASERS**
- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- GASEOUS DIFFUSION**
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
- GASEOUS FISSION REACTORS**
- Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
- GASEOUS ROCKET PROPELLANTS**
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- GASES**
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
- GASIFICATION**
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- GASKETS**
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- O-ring gasket test fixture
[NASA-CASE-MSC-28376-1] c 14 N89-28546
- GATES (CIRCUITS)**
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
- GATES (OPENINGS)**
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10586] c 14 N71-28935
- GAW-1 AIRFOIL**
- Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
- GEAR TEETH**
- Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- GEARS**
- Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927
- GELATION**
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
- GELLED ROCKET PROPELLANTS**
- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- GELS**
- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
- GENERAL AVIATION AIRCRAFT**
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- GENERATORS**
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- GENETIC ENGINEERING**
- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
- GEODESY**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- GEODETIC SURVEYS**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
- GEODIMETERS**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
- GEOLOGICAL SURVEYS**
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
- GEOMETRY**
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
- Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
- GERMANIUM**
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- GERMANIUM ALLOYS**
- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- GIMBALS**
- Gimbale, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

GLANDS (SEALS)

- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11583-1] c 37 N77-23482
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-13803

GLASS COATINGS

- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES

- Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS

- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS

- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

GLASSWARE

- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA

- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE LANDINGS

- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

GLIDE PATHS

- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM

- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-13787

GLOBES

- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

GLOW DISCHARGES

- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE

- Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS

- Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS

- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRADIENTS

- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

GRANULAR MATERIALS

- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE

- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623

GRAPHITE-EPOXY COMPOSITES

- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

GRAPHITIZATION

- Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320

GRATINGS (SPECTRA)

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153
Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N91-13692

GRAVIMETERS

- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION

- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT

- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS

- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

GRAVITATIONAL FIELDS

- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

GRAVITY GRADIENT SATELLITES

- Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS

- Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE

- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

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GRAZING INCIDENCE TELESCOPES

Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GREENHOUSES

Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

GRIDS

Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

GRINDING (MATERIAL REMOVAL)

Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES

Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

GROUND EFFECT (COMMUNICATIONS)

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

GROUND EFFECT MACHINES

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672

GROUND HANDLING

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

GROUND STATE

Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

GROUND STATIONS

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

GROUND SUPPORT EQUIPMENT

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

GROUND-AIR-GROUND COMMUNICATION

Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT

Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

GUANIDINES

Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152

GUARDS (SHIELDS)

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GUIDANCE (MOTION)

Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

GUIDANCE SENSORS

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS

Self-obturator, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GYNECOLOGY

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES

Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS

Passive dual spin misalignment compensators --- gyro-stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

HAFNIUM

Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

HALL EFFECT

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS

Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)

Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

HANDLES

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

HANDLING EQUIPMENT

Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARDNESS

Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

HARMONIC GENERATIONS

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

HARMONIC GENERATORS

Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES

Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

HAZARDS

Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

HEAD-UP DISPLAYS

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

HEART

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

HEART FUNCTION

Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473

Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE
Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

HEAT
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796

HEAT FLUX
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Plug-type heat flux gauge and method of producing same
[NASA-CASE-LEW-14967-1] c 35 N91-13685

HEAT MEASUREMENT

Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

HEAT OF COMBUSTION
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

HEAT OF VAPORIZATION
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

HEAT PIPES
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

HEAT PUMPS
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

HEAT RADIATORS
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651

HEAT RESISTANT ALLOYS

High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

HEAT SHIELDING
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Synthesis of polymeric Schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

HEAT SINKS
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

HEAT SOURCES

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214

High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

HEAT STORAGE

Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

HEAT TRANSFER

Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020

Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445

Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989

Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199

Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MS-C-12389] c 33 N71-29052

Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084

High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152

Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606

Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818

Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552

Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463

Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336

Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368

Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MS-C-20497-1] c 34 N85-29180

Pumped two-phase heat transfer loop
[NASA-CASE-MS-C-20841-1] c 34 N87-22950

Pumped two-phase heat transfer loop
[NASA-CASE-MS-C-20841-2] c 34 N88-23958

Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544

Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MS-C-21271-1] c 34 N90-21999

Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-13581

Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668

Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

HEAT TRANSMISSION

Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692

HEAT TREATMENT

High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487

Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521

Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714

Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MS-C-19693-1] c 26 N78-24333

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

HEATERS

Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

HEATING

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772

Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

HEATING EQUIPMENT

Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

Self-cycling fluid heater
[NASA-CASE-MS-C-15567-1] c 33 N73-16918

Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

HEIGHT

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

HELICAL ANTENNAS

Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117

HELICOPTER CONTROL

Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

HELICOPTER DESIGN

Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

HELICOPTER WAKES

Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

HELICOPTERS

Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

HELIOSTATS

Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

HELIUM

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

HELIUM HYDROGEN ATMOSPHERES
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

HELIUM IONS
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

HELIUM-NEON LASERS
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

HELMET MOUNTED DISPLAYS
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

HELMETS
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

HELMHOLTZ RESONATORS
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

HEMISPHERICAL SHELLS
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604

HERMETIC SEALS
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

HETEROJUNCTIONS
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-13995

HEXAGONS
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515

HEXAMETHYLENETETRAMINE
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

HEXOKINASE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

HIERARCHIES
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

HIGH ACCELERATION
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

HIGH ALTITUDE
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

HIGH ALTITUDE BALLOONS
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

HIGH ALTITUDE ENVIRONMENTS
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

HIGH ASPECT RATIO
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

HIGH FREQUENCIES
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

HIGH GAIN
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

HIGH PASS FILTERS
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

HIGH POLYMERS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

HIGH POWER LASERS
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

HIGH PRESSURE
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02988] c 14 N70-42074

High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-13657

HIGH RESOLUTION
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519

HIGH SPEED
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

HIGH SPEED CAMERAS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

HIGH STRENGTH
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152

HIGH STRENGTH ALLOYS
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743

- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Nickel bas alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- HIGH STRENGTH STEELS**
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- HIGH TEMPERATURE**
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
- Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
- Bis(4-(3,4-dimethylenepyrrolyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
- HIGH TEMPERATURE AIR**
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- HIGH TEMPERATURE ENVIRONMENTS**
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- HIGH TEMPERATURE FLUIDS**
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- HIGH TEMPERATURE GASES**
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- HIGH TEMPERATURE LUBRICANTS**
Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- HIGH TEMPERATURE PLASMAS**
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
- HIGH TEMPERATURE PROPELLANTS**
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- HIGH TEMPERATURE RESEARCH**
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- HIGH TEMPERATURE SUPERCONDUCTORS**
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684
- HIGH TEMPERATURE TESTS**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- HIGH VACUUM**
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- HIGH VACUUM ORBITAL SIMULATOR**
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- HIGH VOLTAGES**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
- HIGHWAYS**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- HINGES**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- Space station erectable manipulator, placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
- HISTOGRAMS**
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- HOLDERS**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829

Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408

Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N90-27113

Transducer holder and method of making
[NASA-CASE-LAR-14027-1] c 35 N91-13693

Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617

Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401

HOLE DISTRIBUTION (MECHANICS)
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

HOLE GEOMETRY (MECHANICS)
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

HOLE MOBILITY
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

HOLES (MECHANICS)
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

HOLLOW
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

HOLLOW CATHODES
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

HOLMIUM
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

HOLOGRAPHIC INTERFEROMETRY
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929

Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

HOLOGRAPHY
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476

Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146

Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

Control system for ruling blazed, aberration corrected diffraction gratings
[NASA-CASE-GSC-13240-1] c 35 N91-13692

Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

HOMING DEVICES
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

HONEYCOMB CORES
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713

Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522

Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541

HONEYCOMB STRUCTURES
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322

Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536

Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967

Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892

Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575

Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180

Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

HOOKS
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-13723

HOOP COLUMN ANTENNAS
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

HOPPERS
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

HORIZON SCANNERS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Multi-lobe scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427

Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088

Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

HORIZONTAL SPACECRAFT LANDING
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

HORIZONTAL TAIL SURFACES
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

HORN ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382

Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396

Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907

Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174

Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

HOSES
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

HOT CATHODES
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

HOT CORROSION
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

HOT ISOSTATIC PRESSING
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

HOT PRESSING
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

HOT WORKING
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

HOT-FILM ANEMOMETERS
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

HOT-WIRE ANEMOMETERS
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400

Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

HOT-WIRE FLOWMETERS
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802

Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364

Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

HOUSINGS
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093

Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486

Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462

Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138

Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401

HOVERING
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

HUBBLE SPACE TELESCOPE

- System for the measurement of ultra-low stray light levels
 --- determining the adequacy of large space telescope systems
 [NASA-CASE-MFS-23513-1] c 74 N79-11865
 Orbital maneuvering end effectors
 [NASA-CASE-MFS-28161-1] c 37 N87-18817

HUBS

- Self-locking mechanical center joint
 [NASA-CASE-LAR-12864-1] c 37 N85-30336

HUGONIOT EQUATION OF STATE

- Determining particle density using known material
 Hugoniot curves
 [NASA-CASE-LAR-11059-1] c 76 N75-12810

HULLS (STRUCTURES)

- Hydrofoil Patent
 [NASA-CASE-XLA-00229] c 12 N70-33305

HUMAN BEINGS

- Skeletal stressing method and apparatus Patent
 [NASA-CASE-ARC-10100-1] c 05 N71-24738
 Emergency escape system Patent
 [NASA-CASE-XKS-07814] c 15 N71-27067

HUMAN BODY

- Mass measuring system Patent
 [NASA-CASE-XMS-03371] c 05 N70-42000
 Biomedical electrode arrangement Patent
 [NASA-CASE-XFR-10856] c 05 N71-11189
 Garments for controlling the temperature of the body
 Patent
 [NASA-CASE-XMS-10269] c 05 N71-24147
 Tilting table for ergometer and for other biomedical devices
 [NASA-CASE-MFS-21010-1] c 05 N73-30078
 Method and system for in vivo measurement of bone tissue using a two level energy source
 [NASA-CASE-MSC-14276-1] c 52 N77-14737
 Circumferential pressure probe
 [NASA-CASE-LAR-13775-1] c 35 N90-23706

HUMAN FACTORS ENGINEERING

- Shock absorbing support and restraint means Patent
 [NASA-CASE-XMS-01240] c 05 N70-35152
 Harness assembly Patent
 [NASA-CASE-MFS-14671] c 05 N71-12341
 Multiple circuit switch apparatus with improved pivot actuator structure Patent
 [NASA-CASE-XAC-03777] c 10 N71-15909
 Three-axis finger tip controller for switches Patent
 [NASA-CASE-XAC-02405] c 09 N71-16089
 Extravehicular tunnel suit system Patent
 [NASA-CASE-MSC-12243-1] c 05 N71-24728
 EEG sleep analyzer and method of operation Patent
 [NASA-CASE-MSC-13282-1] c 05 N71-24729
 Spacesuit mobility joints
 [NASA-CASE-ARC-11058-1] c 54 N78-31735
 Spacesuit torso closure
 [NASA-CASE-ARC-11100-1] c 54 N78-31736
 Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
 [NASA-CASE-NPO-13910-1] c 52 N79-27836
 Locking mechanism for orthopedic braces
 [NASA-CASE-GSC-12082-2] c 52 N81-25661
 Urine collection apparatus --- feminine hygiene
 [NASA-CASE-MSC-18381-1] c 52 N81-28740
 Spectrally balanced chromatic landing approach lighting system
 [NASA-CASE-ARC-10990-1] c 04 N82-16059
 Thermal garment
 [NASA-CASE-XMS-03694-1] c 54 N82-29002
 Kinesimetric method and apparatus
 [NASA-CASE-MSC-18929-1] c 39 N83-20280
 Torso sizing ring construction for hard space suit
 [NASA-CASE-ARC-11616-1] c 54 N86-28618
 Shoulder and hip joint for hard space suits
 [NASA-CASE-ARC-11543-1] c 54 N86-28620
 Multi-adjustable headband --- for headsets
 [NASA-CASE-KSC-11322-1] c 54 N89-29953

HUMAN PERFORMANCE

- Color perception tester
 [NASA-CASE-KSC-10278] c 05 N72-16015

HUMAN REACTIONS

- Reaction tester
 [NASA-CASE-MSC-13604-1] c 05 N73-13114
 Visual accommodation trainer-tester
 [NASA-CASE-ARC-11426-2] c 52 N89-16256

HUMAN WASTES

- Reduced gravity fecal collector seat and urinal
 [NASA-CASE-MFS-22102-1] c 54 N74-20725
 Automatic biowaste sampling
 [NASA-CASE-MSC-14640-1] c 54 N76-14804
 Absorbent product to absorb fluids --- for collection of human wastes
 [NASA-CASE-MSC-18223-1] c 24 N82-29362
 Absorbent product and articles made therefrom
 [NASA-CASE-MSC-18223-2] c 54 N84-11758

HUMIDITY

- Passive intrusion detection system
 [NASA-CASE-NPO-13804-1] c 33 N80-23559
 Apparatus for supplying conditioned air at a substantially constant temperature and humidity
 [NASA-CASE-GSC-12191-1] c 31 N80-32583

HUMIDITY MEASUREMENT

- Water-absorbing capacitor system for measuring relative humidity
 [NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

HYBRID CIRCUITS

- Integrating IR detector imaging systems
 [NASA-CASE-NPO-15805-1] c 74 N84-28590
 Hybrid power semiconductor
 [NASA-CASE-LEW-13922-1] c 33 N86-20672
 Hermetically sealable package for hybrid solid-state electronic devices and the like
 [NASA-CASE-MSC-20181-1] c 33 N88-23941

HYBRID COMPUTERS

- Adaptive voting computer system
 [NASA-CASE-MSC-13932-1] c 62 N74-14920

HYBRID PROPELLANTS

- Solid propellant liner Patent
 [NASA-CASE-XNP-09744] c 27 N71-16392

HYDRAULIC CONTROL

- Shear modulated fluid amplifier Patent
 [NASA-CASE-MFS-10412] c 12 N71-17578
 Multiple orifice throttle valve Patent
 [NASA-CASE-XNP-09698] c 15 N71-18580
 Fluidic-thermochromic display device Patent
 [NASA-CASE-ERC-10031] c 12 N71-18603
 Hydraulic transformer Patent
 [NASA-CASE-MFS-20830] c 15 N71-30028
 Hydraulic drain means for servo-systems
 [NASA-CASE-NPO-10316-1] c 37 N77-22479

HYDRAULIC EQUIPMENT

- Support apparatus for dynamic testing Patent
 [NASA-CASE-XMF-01772] c 11 N70-41677
 Hydraulic support for dynamic testing Patent
 [NASA-CASE-XMF-03248] c 11 N71-10604
 Hydraulic drive mechanism Patent
 [NASA-CASE-XMS-03252] c 15 N71-10658
 Anti-backlash circuit for hydraulic drive system Patent
 [NASA-CASE-XNP-01020] c 03 N71-12260
 Hydraulic grip Patent
 [NASA-CASE-XLA-05100] c 15 N71-17696
 Shock absorber Patent
 [NASA-CASE-XMS-03722] c 15 N71-21530
 Hydraulic casting of liquid polymers Patent
 [NASA-CASE-XNP-07659] c 06 N71-22975
 Energy limiter for hydraulic actuators Patent
 [NASA-CASE-ARC-10131-1] c 15 N71-27754
 Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
 [NASA-CASE-XAC-00048] c 02 N71-29128
 Hydraulic transformer Patent
 [NASA-CASE-MFS-20830] c 15 N71-30028
 Mechanically extendible telescoping boom
 [NASA-CASE-NPO-11118] c 03 N72-25021
 Geysering inhibitor for vertical cryogenic transfer pipe
 [NASA-CASE-KSC-10615] c 15 N73-12486
 Redundant hydraulic control system for actuators
 [NASA-CASE-MFS-20944] c 15 N73-13466
 Combined pressure regulator and shutoff valve
 [NASA-CASE-NPO-13201-1] c 37 N75-15050
 Ultrasonically bonded valve assembly
 [NASA-CASE-NPO-13360-1] c 37 N75-25185
 Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
 [NASA-CASE-MSC-14273-1] c 34 N75-33342
 Quick disconnect filter coupling
 [NASA-CASE-MFS-22323-1] c 37 N76-14463
 Actuator device for artificial leg
 [NASA-CASE-MFS-23225-1] c 52 N77-14735
 Phase-angle controller for Stirling engines
 [NASA-CASE-NPO-14388-1] c 37 N81-17432
 Underground mineral extraction
 [NASA-CASE-NPO-14140-1] c 43 N81-26509
 Gas-to-hydraulic power converter
 [NASA-CASE-MSC-18794-1] c 44 N83-14693
 Tubing and cable cutting tool
 [NASA-CASE-LAR-12786-1] c 37 N84-28085
 Personnel emergency carrier vehicle
 [NASA-CASE-KSC-11282-1] c 85 N87-21755
 Fatigue testing a plurality of test specimens and method
 [NASA-CASE-MFS-28118-1] c 39 N87-25601
 Control surface actuator
 [NASA-CASE-LAR-12852-1] c 05 N89-11738
 Passively activated prehensile digit for a robotic end effector
 [NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
 Hydraulic lifting device
 [NASA-CASE-SSC-00008-1] c 37 N91-13733

HYDRAULIC FLUIDS

- Free-piston regenerative hot gas hydraulic engine
 [NASA-CASE-LEW-12274-1] c 37 N80-31790

HYDRAULIC JETS

- Warm fog dissipation using large volume water sprays
 [NASA-CASE-MFS-25962-1] c 09 N89-25242

HYDRAZINE ENGINES

- Reciprocating engines
 [NASA-CASE-MSC-16239-1] c 37 N81-32510

HYDRAZINE NITROFORM

- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
 [NASA-CASE-NPO-12015] c 27 N73-16764

HYDRAZINES

- Ignition means for monopropellant Patent
 [NASA-CASE-XNP-00876] c 28 N70-41311
 Solder flux which leaves corrosion-resistant coating Patent
 [NASA-CASE-XNP-03459-2] c 18 N71-15688
 Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
 [NASA-CASE-NPO-12122-1] c 24 N76-14203

HYDRIDES

- Ten degree Kelvin hydride refrigerator
 [NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

HYDROCARBON COMBUSTION

- In-situ laser retorting of oil shale
 [NASA-CASE-LEW-12217-1] c 43 N78-14452

HYDROCARBON FUEL PRODUCTION

- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
 [NASA-CASE-NPO-14315-1] c 27 N81-17261

HYDROCARBON FUELS

- Apparatus for making a metal slurry product Patent
 [NASA-CASE-XLE-00010] c 15 N70-33382
 Hydrogen rich gas generator
 [NASA-CASE-NPO-13342-2] c 44 N76-29700
 Hydrogen rich gas generator
 [NASA-CASE-NPO-13464-2] c 44 N76-29704
 Dual-fuel, dual-mode rocket engine
 [NASA-CASE-LAR-13773-1] c 20 N90-19298
 Regenerative Cu La zeolite supported desulfurizing sorbents
 [NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

HYDROCARBONS

- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
 [NASA-CASE-NPO-12015] c 27 N73-16764
 Hydrogen rich gas generator
 [NASA-CASE-NPO-13342-1] c 37 N76-16446
 Combustion engine --- for air pollution control
 [NASA-CASE-NPO-13671-1] c 37 N77-31497
 Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
 [NASA-CASE-NPO-13137-1] c 27 N80-32514
 Technique for measuring gas conversion factors
 [NASA-CASE-LAR-13220-1] c 34 N86-12547
 Method and device for determining heats of combustion of gaseous hydrocarbons
 [NASA-CASE-LAR-13528-1] c 25 N88-29002
 Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
 [NASA-CASE-ARC-11425-3] c 23 N90-23475
 Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
 [NASA-CASE-LAR-14330-1-CU] c 27 N91-13560

HYDROCHLORIC ACID

- Indicator providing continuous indication of the presence of a specific pollutant in air
 [NASA-CASE-NPO-13474-1] c 45 N76-21742
 Metal etching composition
 [NASA-CASE-MFS-29576-1] c 25 N91-15368

HYDROCHLORIDES

- Method and apparatus for rebalancing a REDOX flow cell system
 [NASA-CASE-LEW-14127-1] c 33 N86-20680

HYDRODYNAMICS

- Dual clearance squeeze film damper
 [NASA-CASE-LEW-13506-1] c 37 N85-33490
 Hydrodynamic skin-friction reduction
 [NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
 Polymer/riblet combination for hydrodynamic skin friction reduction
 [NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

HYDROFOILS

- Hydrofoil Patent
 [NASA-CASE-XLA-00229] c 12 N70-33305

HYDROFORMING

- Hydroforming techniques using epoxy molds Patent
 [NASA-CASE-XLE-05641-1] c 15 N71-26346

HYDROGEN

- Method for detecting hydrogen gas
 [NASA-CASE-XMF-03873] c 06 N69-39733

Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864

Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575

Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442

Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146

Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412

Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446

Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641

Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580

Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

HYDROGEN ATOMS

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

HYDROGEN EMBRITTLEMENT

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

HYDROGEN ENGINES

Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

HYDROGEN FUELS

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704

Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

HYDROGEN IONS

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

HYDROGEN OXYGEN FUEL CELLS

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

HYDROGEN PEROXIDE

Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

HYDROGEN PRODUCTION

Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

HYDROGENATION

Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

HYDROLOGY

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

HYDROLYSIS

Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

HYDROSTATIC PRESSURE

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

HYDROSTATICS

Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

HYDROXIDES

Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

Synthesis of dawsונים --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

HYDROXYL COMPOUNDS

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

HYGIENE

Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

HYGROMETERS

Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

HYGROSCOPICITY

Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

HYPERCUBE MULTIPROCESSORS

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769

HYPERFINE STRUCTURE

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

HYPERGOLIC ROCKET PROPELLANTS

Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375

Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634

HYPERSONIC AIRCRAFT

Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

HYPERSONIC FLIGHT

Hyperonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

HYPERSONIC FLOW

Hyperonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYPERSONIC SPEED

Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242

Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HYPERSONIC VEHICLES

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

HYPERSONIC WIND TUNNELS

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

HYPERHERMIA

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

HYPERVELOCITY GUNS

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

Collapse pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

HYPERVELOCITY IMPACT

Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

HYPERVELOCITY PROJECTILES

Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282

Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

HYPERVELOCITY WIND TUNNELS

Hyperonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

Hyperonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYSTERESIS

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

ICE

Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149

IDENTIFYING

Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

IGNITERS

Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784

Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378

Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

IGNITION

Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

IGNITION LIMITS

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

IGNITION SYSTEMS

Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375

Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249

Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505

Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

IGNITION TEMPERATURE

Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

ILLUMINATING

EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

ILLUMINATORS

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292

IMAGE ANALYSIS

- Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Method and apparatus for sensor fusion
[NASA-CASE-MS-C-21334-1] c 32 N89-25360

IMAGE CONTRAST

- Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

IMAGE CONVERTERS

- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

IMAGE CORRELATORS

- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

IMAGE DISSECTOR TUBES

- Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

IMAGE ENHANCEMENT

- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

IMAGE FILTERS

- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

IMAGE INTENSIFIERS

- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

IMAGE PROCESSING

- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Programmable pipelined image processor
[NASA-CASE-NPO-14661-1-CU] c 60 N89-26400
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MS-C-21481-1] c 60 N91-13890
General method of pattern classification using the two-domain theory
[NASA-CASE-MS-C-21737-1] c 61 N91-13911

- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

IMAGE RESOLUTION

- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

IMAGE ROTATION

- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

IMAGE TUBES

- Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
System for producing chroma signals
[NASA-CASE-MS-C-14683-1] c 74 N77-18893

IMAGERY

- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

IMAGES

- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10180-1] c 23 N72-27728
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

IMAGING RADAR

- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

IMAGING TECHNIQUES

- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Multispectral imaging system
[NASA-CASE-MS-C-12404-1] c 23 N73-13661
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Data storage, image tube type
[NASA-CASE-MS-C-14053-1] c 60 N74-12888
Optical instruments
[NASA-CASE-MS-C-14096-1] c 74 N74-15095
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral scanner optical system
[NASA-CASE-MS-C-18255-1] c 74 N80-33210
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519

IMIDES

- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxophosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorgano oxophosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

IMINES

- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

IMMOBILIZATION

- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

IMPACT
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

IMPACT ACCELERATION
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

IMPACT DAMAGE
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Semi-active orbital debris sweeper
[NASA-CASE-MS-C-21534-1] c 18 N90-26860

IMPACT LOADS
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

IMPACT RESISTANCE
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

IMPACT STRENGTH
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

IMPACT TESTING MACHINES
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TESTS
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TOLERANCES
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

IMPEDANCE
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

IMPEDANCE MATCHING
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

IMPEDANCE MEASUREMENT
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

IMPELLERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

IMPLANTATION
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

IMPLANTED ELECTRODES (BIOLOGY)

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

IMPLSIONS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

IMPREGNATING
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MS-C-18832-1] c 27 N83-18908
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14549-1] c 24 N91-15334

PULSE GENERATORS
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

IMPURITIES
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

IN-FLIGHT MONITORING
System for use in conducting wake investigation for a wing in flight -- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION
Solar cell assembly -- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

INCLINATION
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCOHERENT SCATTERING
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

INDICATING INSTRUMENTS
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Fluid leak indicator
[NASA-CASE-MS-C-20783-1] c 35 N86-20756

INDIUM ALLOYS
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

INDIUM COMPOUNDS
Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826

INDUCTANCE
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

INDUCTION
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

INDUCTION HEATING
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

INDUCTION MOTORS
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control -- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines -- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

INDUSTRIAL PLANTS
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MS-C-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

INERT ATMOSPHERE
Method for retarding dye fading during archival storage of developed color photographic film -- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION
Method and apparatus for producing gas-filled hollow spheres -- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- INERTIAL GUIDANCE**
Hermetic sealed vibration damper Patent
[NASA-CASE-MS-C-10959] c 15 N71-26243
- INERTIAL NAVIGATION**
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N91-13483
- INERTIAL PLATFORMS**
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- INERTIAL REFERENCE SYSTEMS**
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
- INFLATABLE SPACECRAFT**
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- INFLATABLE STRUCTURES**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MS-C-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- INFORMATION RETRIEVAL**
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- INFRARED DETECTORS**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MS-C-18255-1] c 74 N80-33210
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
- INFRARED INSTRUMENTS**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- INFRARED INTERFEROMETERS**
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- INFRARED LASERS**
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- INFRARED PHOTOMETRY**
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- INFRARED RADIATION**
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- INFRARED REFLECTION**
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- INFRARED SCANNERS**
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
- INFRARED SPECTRA**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- INFRARED SPECTROMETERS**
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
- INFRARED SPECTROSCOPY**
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- INFRARED TELESCOPES**
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
- INFRASONIC FREQUENCIES**
Resonant infrasonic gauging apparatus
[NASA-CASE-MS-C-11847-1] c 14 N72-11363
- INHIBITORS**
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
- INITIATORS (EXPLOSIVES)**
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Four-terminal electrical testing device --- initiator bridgeway resistance
[NASA-CASE-MS-C-21166-1] c 35 N87-25555
- INJECTION**
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- INJECTION LASERS**
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- INJECTORS**
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130
- INKS**
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- INLET FLOW**
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- INLET NOZZLES**
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- INLET PRESSURE**
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
- INOCULATION**
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- INORGANIC COATINGS**
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- INORGANIC COMPOUNDS**
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT

Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES

Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

INSPECTION

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

INSTALLING

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT COMPENSATION

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226

Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716

Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376

Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

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Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

INTAKE SYSTEMS

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-30388] c 28 N70-34788

The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154

Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

INTEGERS

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

INTEGRATED CIRCUITS

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464

Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205

Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957

Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

High-gain AlGaAs/GaAs double heterojunction, Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-13995

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

INTEGRATORS

Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INTEGRITY

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

INTERFACES

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444

INTERFACIAL TENSION

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

INTERFERENCE FIT

Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

INTERFEROMETERS

- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
- Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
- INTERFEROMETRY**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- INTERLAYERS**
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- INTERMEDIATE FREQUENCY AMPLIFIERS**
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- INTERMETALLICS**
- Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
- Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- INTERNAL COMBUSTION ENGINES**
- Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
- INTERPLANETARY SPACE**
- Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- INTERPLANETARY SPACECRAFT**
- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- INTERPLANETARY TRAJECTORIES**
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- INTERVALS**
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- INTRACRANIAL PRESSURE**
- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- INTRAOCULAR PRESSURE**
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- INTRAVEHICULAR ACTIVITY**
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- INTRAVENOUS PROCEDURES**
- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- INTRUSION**
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- INVENTIONS**
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
- Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- INVERTED CONVERTERS (DC TO AC)**
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- INVERTERS**
- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- INVESTIGATION**
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- IODINE**
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- IODINE COMPOUNDS**
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- IODINE ISOTOPES**
- Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- ION ACCELERATORS**
- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- ION BEAMS**
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
- ION CHARGE**
- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- ION CONCENTRATION**
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- ION CURRENTS**
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- ION CYCLOTRON RADIATION**
- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
- ION DENSITY (CONCENTRATION)**
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES

- Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- High-vacuum condenser tank for ion rocket tests
Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
- Apparatus for increasing ion engine beam density
Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
- Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- ION EXCHANGE MEMBRANE ELECTROLYTES**
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- ION EXCHANGE RESINS**
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- ION EXCHANGING**
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- ION EXTRACTION**
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- ION IMPLANTATION**
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- ION IRRADIATION**
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- ION MOTION**
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- ION PLATING**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- ION PROBES**
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
- ION PROPULSION**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
- Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
- ION PUMPS**
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- ION SOURCES**
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
- High efficiency ionizer assembly Patent
[NASA-CASE-NPO-01954] c 28 N71-28850
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION TRAPS (INSTRUMENTATION)

- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- IONIC MOBILITY**
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- IONIZATION**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- IONIZATION CHAMBERS**
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Electron bombardment ion engine Patent
[NASA-CASE-NPO-04124] c 28 N71-21822
- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- IONIZATION CROSS SECTIONS**
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-18789-1-CU] c 72 N89-29169
- IONIZATION GAGES**
Ionization vacuum gauge Patent
[NASA-CASE-NPO-00646] c 14 N70-35666
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- IONIZATION POTENTIALS**
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- IONIZED GASES**
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- IONIZERS**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- IONIZING RADIATION**
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
- IONOSPHERIC DISTURBANCES**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- IONOSPHERIC ELECTRON DENSITY**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- IONOSPHERIC SOUNDING**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- IONS**
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
- IRIDIUM**
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON

- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS

- Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
- Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES

- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561

IRRIGATION

- Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

ISOLATORS

- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

ISOPROPYL ALCOHOL

- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOTHERMAL LAYERS

- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

J**JET AIRCRAFT**

- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

JET AMPLIFIERS

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL

- Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

- Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
- Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
- Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
- Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

JET EXHAUST

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS

- Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW

- Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

JET MIXING FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES

- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION

- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

JET PUMPS

- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

JET THRUST

- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

- Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

JETTISON SYSTEMS

- Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

JIGS

- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447

JOINING

- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

JOINTS (ANATOMY)

- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

JOINTS (JUNCTIONS)

- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

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- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Fluid leak indicator
[NASA-CASE-MS-C-20783-1] c 35 N86-20756
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
- Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
- Foldable self-erecting joint
[NASA-CASE-MS-C-20635-1] c 18 N87-14373
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- Two fault tolerant toggle-hook release
[NASA-CASE-MS-C-21671-1] c 37 N91-13723
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
- Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
- Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
- Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388

JOSEPHSON JUNCTIONS

- Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N89-29602

JOULE-THOMSON EFFECT

- Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
- Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
- Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

JOURNAL BEARINGS

- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
- Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

JUNCTION DIODES

- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

JUNCTION TRANSISTORS

- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

KALMAN FILTERS

- Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
- Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

KETONES

- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496

KEYING

- High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

KIDNEY DISEASES

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

KIDNEYS

- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

KINEMATICS

- Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

KINETIC ENERGY

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335

KINETIC FRICTION

- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MS-C-20622-1] c 25 N86-19413

KINETICS

- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

KNOWLEDGE REPRESENTATION

- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MS-C-21465-1] c 61 N91-14741

KRAFT PROCESS (WOODPULP)

- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

KRYPTON

- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917

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LABORATORY EQUIPMENT

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104

- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- Multi-path peristaltic pump
[NASA-CASE-MS-C-20907-1] c 37 N87-18818
- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

LACQUERS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

LADDERS

- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

LAMBERT SURFACE

- A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

LAMINAR BOUNDARY LAYER

- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

LAMINAR FLOW

- Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

LAMINAR FLOW AIRFOILS

- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

LAMINATES

- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MS-C-12662-1] c 33 N79-12331
- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1,2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
- Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
- Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
- LAND MOBILE SATELLITE SERVICE**
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- LANDFORMS**
- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
- LANDING AIDS**
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- LANDING GEAR**
- Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- LANDING MODULES**
- Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
- LANDING SIMULATION**
- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
- LANDING SITES**
- Assured crew return vehicle
[NASA-CASE-MS-C-21536-1] c 18 N91-13483
- LANTHANUM COMPOUNDS**
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- LAP JOINTS**
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- LARGE SCALE INTEGRATION**
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- LARGE SPACE STRUCTURES**
- Structural members, method and apparatus
[NASA-CASE-MS-C-16217-1] c 31 N81-27323
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
- Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547
- Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
- LASER ALTIMETERS**
- Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
- LASER APPLICATIONS**
- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
- Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
- Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- Optical joint correlation for real-time tracking
[NASA-CASE-MS-C-21509-1] c 74 N91-13997
- Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- LASER BEAMS**
- Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
- Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- LASER CAVITIES**
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- LASER DOPPLER VELOCIMETERS**
- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
- Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
- Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
- LASER DRILLING**
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- LASER FUSION**
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- LASER GUIDANCE**
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- LASER GYROSCOPES**
- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- LASER HEATING**
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- LASER INTERFEROMETRY**
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- LASER MATERIALS**
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- LASER MODE LOCKING**
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
- LASER MODES**
- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485

Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427

LASER OUTPUTS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34829
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

LASER PLASMAS
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

LASER POWER BEAMING

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

LASER PUMPING
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

LASER RANGE FINDERS
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

LASER RANGER/TRACKER
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

LASER SPECTROMETERS
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

LASER SPECTROSCOPY
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

LASER WINDOWS
Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866

LASERS
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

LASING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

LATCHES
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Latching device
[NASA-CASE-MSC-21606-1] c 37 N75-19685
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Self indexing latch system
[NASA-CASE-MSC-25956-1] c 37 N87-21333
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138

LATERAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LATERAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-27222
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

LAUNCH ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES

- A support technique for vertically oriented launch vehicles
 [NASA-CASE-XLA-02704] c 11 N69-21540
 Method and apparatus for detection and location of microleaks Patent
 [NASA-CASE-XMF-02307] c 14 N71-10779
 Three stage rocket vehicle with parallel staging
 [NASA-CASE-MFS-25878-1] c 18 N84-27787
 Earth-to-orbit vehicle providing a reusable orbital stage
 [NASA-CASE-LAR-13486-1] c 16 N90-22584
 Integrated launch and emergency vehicle system
 [NASA-CASE-LAR-13780-1] c 18 N91-13481

LAUNCHERS

- Space probe/satellite ejection apparatus for spacecraft
 [NASA-CASE-MFS-15429-1] c 18 N84-22609
 Space probe/satellite ejection apparatus for spacecraft
 [NASA-CASE-MFS-25429-1] c 18 N86-20469

LAUNCHING PADS

- Missile launch release system Patent
 [NASA-CASE-XMF-03198] c 30 N70-40353
 Remote controlled tubular disconnect Patent
 [NASA-CASE-XLA-01396] c 03 N71-12259
 Validation device for spacecraft checkout equipment Patent
 [NASA-CASE-XKS-10543] c 07 N71-26292

LAUNCHING SITES

- Integrated launch and emergency vehicle system
 [NASA-CASE-LAR-13780-1] c 18 N91-13481

LAY-UP

- Method of making a partial interlaminar separation composite system
 [NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS

- Atomic hydrogen storage method and apparatus
 [NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING

- Process for the leaching of AP from propellant
 [NASA-CASE-NPO-14109-1] c 28 N80-23471
 Infusion extractor
 [NASA-CASE-MSC-20761-1] c 37 N87-15465

LEAD (METAL)

- Lead-oxygen dc power supply system having a closed loop oxygen and water system
 [NASA-CASE-MFS-23059-1] c 44 N76-27664
 Catalyst surfaces for the chromous/chromic redox couple
 [NASA-CASE-LEW-13148-2] c 44 N81-29524
 Joining lead wires to thin platinum alloy films
 [NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES

- Integrated photo-responsive metal oxide semiconductor circuit
 [NASA-CASE-GSC-12782-1] c 33 N88-14271

LEAD TELLURIDES

- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
 [NASA-CASE-XGS-04554] c 15 N69-39786
 Segmenting lead telluride-silicon germanium thermoelements Patent
 [NASA-CASE-XGS-05718] c 26 N71-16037

LEADING EDGE FLAPS

- Leading edge flap system for aircraft control augmentation
 [NASA-CASE-LAR-12787-2] c 08 N85-19985

LEADING EDGES

- Reentry vehicle leading edge Patent
 [NASA-CASE-XLA-00165] c 31 N70-33242
 Leading edge curvature based on convective heating Patent
 [NASA-CASE-XLA-01486] c 01 N71-23497
 Leading edge protection for composite blades
 [NASA-CASE-LEW-12550-1] c 24 N77-19170
 Geometries for roughness shapes in laminar flow
 [NASA-CASE-LAR-13255-1] c 02 N87-16793

LEAKAGE

- Rocket chamber leak test fixture
 [NASA-CASE-XFR-09479] c 14 N69-27503
 Method and apparatus for detection and location of microleaks Patent
 [NASA-CASE-XMF-02307] c 14 N71-10779
 Leak detector Patent
 [NASA-CASE-LAR-10323-1] c 12 N71-17573
 Hard space suit Patent
 [NASA-CASE-XAC-07043] c 05 N71-23161
 Method for leakage testing of tanks Patent
 [NASA-CASE-XMF-02392] c 32 N71-24285
 Leak detector wherein a probe is monitored with ultraviolet radiation Patent
 [NASA-CASE-ERC-10034] c 15 N71-24896
 Method for detecting leaks in hermetically sealed containers Patent
 [NASA-CASE-ERC-10045] c 15 N71-24910

- Method and apparatus for detecting gross leaks Patent
 [NASA-CASE-ERC-10033] c 14 N71-26672
 Orifice gross leak tester Patent
 [NASA-CASE-ERC-10150] c 14 N71-28992
 Leak detector
 [NASA-CASE-MFS-21761-1] c 35 N75-15931
 Vacuum leak detector
 [NASA-CASE-LAR-11237-1] c 35 N75-19612
 Low heat leak connector for cryogenic system
 [NASA-CASE-XLE-02367-1] c 31 N79-21225
 Carbon granule probe microphone for leak detection --- recovery boilers
 [NASA-CASE-NPO-16027-1] c 35 N85-21597
 Portable remote laser sensor for methane leak detection
 [NASA-CASE-NPO-15790-1] c 36 N85-21631
 Fluid leak indicator
 [NASA-CASE-MSC-20783-1] c 35 N86-20756
 Method of repairing hidden leaks in tubes
 [NASA-CASE-MFS-19796-1] c 37 N86-32736
 Self-compensating solenoid valve
 [NASA-CASE-ARC-11620-1] c 37 N87-25573
 High temperature flexible seal
 [NASA-CASE-LEW-14695-1] c 37 N90-23751

LEAST SQUARES METHOD

- Modified fast frequency acquisition via adaptive least squares algorithm
 [NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

LEG (ANATOMY)

- Actuator device for artificial leg
 [NASA-CASE-MFS-23225-1] c 52 N77-14735
 Rotational joint assembly for the prosthetic leg
 [NASA-CASE-KSC-11004-1] c 54 N77-30749
 Mechanical energy storage device for hip disarticulation
 [NASA-CASE-ARC-10916-1] c 52 N78-10686
 Drop foot corrective device
 [NASA-CASE-LAR-12259-2] c 54 N86-22112

LENSES

- High temperature lens construction Patent
 [NASA-CASE-XNP-04111] c 14 N71-15622
 Image magnification adapter for cameras Patent
 [NASA-CASE-XMF-03844-1] c 14 N71-26474
 Petzval type objective including field shaping lens Patent
 [NASA-CASE-GSC-10700] c 23 N71-30027
 Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
 [NASA-CASE-GSC-11133-1] c 23 N72-11568
 Plural beam antenna
 [NASA-CASE-GSC-11013-1] c 09 N73-19234
 Spatial filter for Q-switched lasers
 [NASA-CASE-LEW-12164-1] c 36 N77-32478
 Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
 [NASA-CASE-ARC-11039-1] c 74 N78-32854
 Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
 [NASA-CASE-LAR-12251-1] c 74 N80-27185
 Constant magnification optical tracking system
 [NASA-CASE-NPO-14813-1] c 74 N82-24072
 Scanning afocal laser velocimeter projection lens system
 [NASA-CASE-LAR-12328-1] c 36 N82-32712
 Interferometric angle monitor
 [NASA-CASE-GSC-12614-1] c 74 N83-32577
 Projection lens scanning laser velocimeter system
 [NASA-CASE-ARC-11547-1] c 36 N87-17026
 Dual mode laser velocimeter
 [NASA-CASE-ARC-11634-1] c 36 N88-14350
 Portable dynamic fundus instrument
 [NASA-CASE-MSC-21675-1] c 52 N91-13865

LENTICULAR BODIES

- Space and atmospheric reentry vehicle Patent
 [NASA-CASE-XGS-00260] c 31 N70-37924

LESIONS

- Apparatus for imaging deep arterial and coronary lesions
 [NASA-CASE-NPO-17439-1-CU] c 52 N90-16391

LEVEL (HORIZONTAL)

- Hot wire liquid level detector for cryogenic fluids Patent
 [NASA-CASE-XLE-00454] c 23 N71-17802
 Rotary leveling base platform
 [NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)

- Spherical tank gauge Patent
 [NASA-CASE-XMS-06236] c 14 N71-21007
 Positive dc to positive dc converter Patent
 [NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING

- Adjustable attitude guide device Patent
 [NASA-CASE-XLA-07911] c 15 N71-15571

- Electrical switching device Patent
 [NASA-CASE-NPO-10037] c 09 N71-19610
 Adjustable support
 [NASA-CASE-NPO-10721] c 15 N72-27484
 Automatically operable self-leveling load table
 [NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVITATION

- Gas levitator having fixed levitation node for containerless processing
 [NASA-CASE-MFS-25509-1] c 35 N83-24828
 Closed loop electrostatic levitation system
 [NASA-CASE-NPO-15553-1] c 33 N85-29142

LEVITATION MELTING

- High temperature acoustic levitator
 [NASA-CASE-NPO-16022-1] c 71 N85-22105
 Sample levitation and melt in microgravity
 [NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LIFE (DURABILITY)

- Hollow rolling element bearings
 [NASA-CASE-LEW-11087-3] c 37 N74-21064
 Method of increasing minority carrier lifetime in silicon web or the like
 [NASA-CASE-NPO-15530-1] c 76 N83-35888
 Apparatus for disintegrating kidney stones
 [NASA-CASE-GSC-12652-1] c 52 N84-34913
 Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
 [NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
 Arc-textured high emittance radiator surfaces
 [NASA-CASE-LEW-14679-1] c 27 N89-28651

LIFE DETECTORS

- Use of the enzyme hexokinase for the reduction of inherent light levels
 [NASA-CASE-XGS-05533] c 04 N69-27487
 Lyophilized reaction mixtures Patent
 [NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS

- Life raft Patent
 [NASA-CASE-XMS-00863] c 05 N70-34857
 Life raft stabilizer
 [NASA-CASE-MSC-12393-1] c 02 N73-26006
 Modification of one man life raft
 [NASA-CASE-LAR-10241-1] c 54 N74-14845

LIFE SUPPORT SYSTEMS

- Shock absorbing support and restraint means Patent
 [NASA-CASE-XMS-01240] c 05 N70-35152
 Portable environmental control system Patent
 [NASA-CASE-XMS-09632-1] c 05 N71-11203
 Extravehicular tunnel suit system Patent
 [NASA-CASE-MSC-12243-1] c 05 N71-24728
 Foreshortened convolute section for a pressurized suit Patent
 [NASA-CASE-XMS-09637-1] c 05 N71-24730
 Orbital escape device Patent
 [NASA-CASE-XMS-06162] c 31 N71-28851
 Specialized halogen generator for purification of water Patent
 [NASA-CASE-XLA-08913] c 14 N71-28933
 Life support system
 [NASA-CASE-MSC-12411-1] c 05 N72-20096
 Air removal device
 [NASA-CASE-XLA-08914] c 15 N73-12492
 Space suit
 [NASA-CASE-MSC-12609-1] c 05 N73-32012
 Catalyst cartridge for carbon dioxide reduction unit
 [NASA-CASE-LAR-10551-1] c 25 N74-12813
 Helmet feedport
 [NASA-CASE-XMS-09653] c 54 N78-17680
 Cooling system for removing metabolic heat from an hermetically sealed spacesuit
 [NASA-CASE-ARC-11059-1] c 54 N78-32721
 Air removal device --- life support systems
 [NASA-CASE-XLA-08914-2] c 25 N82-21269
 Suitport extra-vehicular access facility
 [NASA-CASE-ARC-11635-1] c 18 N90-16860

LIFT

- Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1] c 05 N90-15094

LIFT DEVICES

- Device for handling heavy loads
 [NASA-CASE-XNP-04969] c 11 N69-27466
 Recoverable rocket vehicle Patent
 [NASA-CASE-XMF-00389] c 31 N70-34176
 Direct lift control system Patent
 [NASA-CASE-LAR-10249-1] c 02 N71-26110
 Ferry system
 [NASA-CASE-LAR-10574-1] c 11 N73-13257
 High lift aircraft --- with improved stability, control, performance, and noise characteristics
 [NASA-CASE-LAR-11252-1] c 05 N75-25914
 Device for installing rocket engines
 [NASA-CASE-MFS-19220-1] c 20 N76-22296
 Vortex-lift roll-control device
 [NASA-CASE-LAR-11868-2] c 08 N79-14108

LIFT DRAG RATIO

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094

LIFT DRAG RATIO

Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

LIFTING BODIES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264

LIFTING REENTRY VEHICLES

Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

LIFTING ROTORS

High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

LIGANDS

Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

LIGHT (VISIBLE RADIATION)

Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

LIGHT AIRCRAFT

Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110

LIGHT BEAMS

Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

LIGHT EMISSION

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

LIGHT EMITTING DIODES

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

LIGHT GAS GUNS

Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

LIGHT MODULATION

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

LIGHT SCATTERING

The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

LIGHT SCATTERING METERS

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

LIGHT SOURCES

Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Altitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

LIGHT TRANSMISSION

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191

LIGHT VALVES

Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LIGHTING EQUIPMENT

Internal work light Patent
[NASA-CASE-KKS-05932] c 09 N71-26787
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

LIGHTNING

Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

LIMBS (ANATOMY)

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

LIMITER CIRCUITS

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE OF SIGHT

EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

LINE SPECTRA

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

LINEAR ACCELERATORS

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

LINEAR CIRCUITS

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR INTEGRATED CIRCUITS

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

LINEAR POLARIZATION

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

LINEAR PROGRAMMING

Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR RECEIVERS

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

LINEARITY

Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045

- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- LININGS**
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- LINKAGES**
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
- Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
- LIQUEFACTION**
Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
- LIQUID ATOMIZATION**
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- LIQUID BEARINGS**
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
- LIQUID CHROMATOGRAPHY**
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
- LIQUID COOLING**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
- Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
- Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
- LIQUID CRYSTALS**
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
- LIQUID FILLED SHELLS**
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
- Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Omnidirectional acceleration device
[NASA-CASE-HQN-10780] c 14 N71-30265
- LIQUID FLOW**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
- Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
- Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
- System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- LIQUID HELIUM**
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- LIQUID HYDROGEN**
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- LIQUID INJECTION**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
- Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- LIQUID LASERS**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- LIQUID LEVELS**
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- LIQUID METALS**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
- Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
- Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
- Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
- LIQUID NITROGEN**
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
- LIQUID OXYGEN**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- LIQUID PHASES**
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- LIQUID PROPELLANT ROCKET ENGINES**
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- LIQUID ROCKET PROPELLANTS**
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910

Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505

High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447

Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188

Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130

Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073

LIQUID SLOSHING

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997

Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103

Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106

Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM

Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297

Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646

Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES

Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES

Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134

Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610

Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184

Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911

Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102

Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390

Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

LITHIUM

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

LITHIUM ALLOYS

Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

LITHIUM COMPOUNDS

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LOAD DISTRIBUTION (FORCES)

Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225

Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794

Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

LOAD TESTING MACHINES

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974

Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441

Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537

Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967

Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

LOAD TESTS

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

LOADING OPERATIONS

Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)

Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466

Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813

Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052

Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441

Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191

Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432

Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959

Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463

Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499

Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442

Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712

Power saw
[NASA-CASE-MSC-21469-1] c 37 N90-26340

Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N91-13687

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

LOCAL AREA NETWORKS

Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

LOCATES SYSTEM

Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

LOCKING

Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927

Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-13723

Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610

System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

LOCKS (FASTENERS)

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180

LOCOMOTION

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

LOGARITHMIC RECEIVERS

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

Nanosequence digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310

Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

LOGIC PROGRAMMING

VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

LONGERONS

Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

LONGITUDINAL CONTROL

Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581

Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LONGITUDINAL STABILITY

Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LOOK ANGLES (ELECTRONICS)

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

LOOP ANTENNAS

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Automatic carrier acquisition system
[NASA-CASE-NPO-11629-1] c 07 N73-30113

LOOPS

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

LOUVERS

Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

LOW ASPECT RATIO

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

LOW CONDUCTIVITY

High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

LOW COST

Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635

Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609

Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608

LOW CURRENTS

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

LOW DENSITY MATERIALS

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

LOW FREQUENCIES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

LOW GRAVITY MANUFACTURING

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189

Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944

Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LOW MOLECULAR WEIGHTS

Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

LOW NOISE

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

LOW PASS FILTERS

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684

LOW PRESSURE

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

LOW SPEED

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863

LOW TEMPERATURE

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

LOW TEMPERATURE ENVIRONMENTS

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

LOW TEMPERATURE TESTS

Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

LOW THRUST

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LOW VACUUM

Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

LOW VOLTAGE

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

Flexible blade antenna Patent
[NASA-CASE-MS-12101] c 09 N71-18720

Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

LOWER BODY NEGATIVE PRESSURE

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-20202-1] c 54 N84-16803

LUBRICANTS

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061

Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

LUBRICATING OILS

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

LUBRICATION

Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383

Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265

Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461

LUBRICATION SYSTEMS

Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997

Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048

Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

LUGS

Don/doff support stand for use with rear entry space suits
[NASA-CASE-MS-21364-1] c 54 N89-13889

LUMINAIRES

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521

Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250

Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181

Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

Direct current ballast circuit for metal halide lamp
[NASA-CASE-MS-18407-1] c 33 N82-24427

LUMINANCE

Television camera video level control system
[NASA-CASE-MS-18578-1] c 32 N85-21427

LUMINOSITY

Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

LUMINOUS INTENSITY

Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254

Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571

Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LUMPING

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

LUNAR BASES

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

LUNAR COMMUNICATION

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR COMPOSITION

Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

LUNAR EXPLORATION

Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351

Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR GRAVITATION

Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

LUNAR GRAVITY SIMULATOR

Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LUNAR LANDING

Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

LUNAR LOGISTICS

Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

LUNAR ROCKS

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

LUNAR SOIL

Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420

Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MS-12408-1] c 46 N74-13011

LUNAR SURFACE VEHICLES

Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611

Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

LUNGS

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

MACHINE LEARNING

Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

MACHINE TOOLS

Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923

Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817

Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283

Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266

Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480

Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

Method and tool for machining a-transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

MACHINERY

Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177

Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334

Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

MACHINING

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489

Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

Plug-type heat flux gauge and method of producing same
[NASA-CASE-LEW-14967-1] c 35 N91-13685

MAGNESIUM

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS

Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES

Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095

Edge geometry superconducting tunnel junctions utilizing an NBN/MgO/NBN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

MAGNET COILS

Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890

Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MS-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC CHARGE DENSITY

Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS

Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS

Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998

Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

MAGNETIC CONTROL

Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060

Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459

Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464

Low temperature latching solenoid
[NASA-CASE-MS-18106-1] c 33 N82-11357

MAGNETIC CORES

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995

Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515

Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928

MAGNETIC DIPOLES

Balance torqueometer Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS

Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540

Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372

Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646

Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

Balance torqueometer Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770

Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771

Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175

Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710

Electron beam controller — using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315

Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

Atomic hydrogen storage — cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

Magnetic drive coupling
[NASA-CASE-MS-21171-1] c 37 N88-23973

Magnetic attachment mechanism
[NASA-CASE-MS-21095-1] c 37 N89-12866

MAGNETIC FILMS

Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123

Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516

Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetic bearing — for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Linear magnetic motor/generator — to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC FORMING

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION

Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892

Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Magnetic drive coupling
[NASA-CASE-MS-21171-1] c 37 N88-23973

MAGNETIC LENSES

Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

MAGNETIC MEASUREMENT

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423

Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

MAGNETIC PERMEABILITY

Linear motion valve
[NASA-CASE-MS-20148-1] c 37 N85-29284

MAGNETIC POLES

Magnetohydrodynamic induction machine
[NASA-CASE-NPO-07481] c 25 N69-21929

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PUMPING

Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516

Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361

Magnetocaloric pump — for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210

Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC SIGNALS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Magnetic suspension and pointing system — on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442

MAGNETIC SWITCHING

Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 NP ,24862

MAGNETIC TAPE TRANSPORTS

Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978

- System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-C-14219-1] c 32 N74-27612
- Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
- MAGNETIC TRANSDUCERS**
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- MAGNETIZATION**
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- MAGNETO-OPTICS**
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- MAGNETOACOUSTIC WAVES**
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
- MAGNETOACOUSTICS**
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- MAGNETOHYDRODYNAMIC FLOW**
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
- Hybrid plume plasma rocket
[NASA-CASE-MS-C-20476-2] c 20 N89-25279
- MAGNETOHYDRODYNAMIC GENERATORS**
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- MAGNETOMETERS**
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- MAGNETRON SPUTTERING**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- MAGNETRONS**
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS

- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284

MAGNIFICATION

- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
- Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

MAGNITUDE

- Balance torqueometer Patent
[NASA-CASE-GSC-01013] c 14 N71-23725

MAINTENANCE

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Bonding or repairing process
[NASA-CASE-MS-C-12357] c 15 N73-12489
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18736-1] c 24 N83-13172
- Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
- High-pressure promoted combustion chamber
[NASA-CASE-MS-C-21470-1] c 09 N90-16771
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MS-C-21559-1] c 51 N91-13860

MALEATES

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

MALFUNCTIONS

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

MAMMALS

- Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N89-25557
- A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MS-C-21662-1] c 51 N91-17531

MANDRELS

- Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
- Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
- Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY

- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS

- Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
- Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130

MANIPULATORS

- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MFS-14245-1] c 18 N75-27041
- Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
- Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Compact artificial hand
[NASA-CASE-NPO-13908-1] c 54 N79-24652
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398
- Space station erectable manipulator placement system
[NASA-CASE-MS-C-21096-1] c 18 N89-12621
- Improved docking alignment system
[NASA-CASE-MS-C-21372-1] c 35 N89-12842
- Magnetic attachment mechanism
[NASA-CASE-MS-C-21095-1] c 37 N89-12866
- Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
- Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
- Gripping device
[NASA-CASE-MS-C-21365-1] c 37 N90-20408
- Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
- Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
- Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
- MANNED ORBITAL LABORATORIES**
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

MANNED SPACE FLIGHT

Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051

Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492

MANNED SPACECRAFT

Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938

Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009

Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933

Collapsible Apollo couch
[NASA-CASE-MS-13140] c 05 N72-11085

Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

Hatch cover
[NASA-CASE-MS-21356-1] c 18 N90-19278

MANOMETERS

Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL

Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

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Numerical computer peripheral interactive device with manual controls
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Solid state controller three axes controller
[NASA-CASE-MS-12394-1] c 08 N74-10942

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

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[NASA-CASE-XLE-00953] c 15 N71-15966

Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214

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[NASA-CASE-NPO-10123] c 15 N71-24835

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137

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[NASA-CASE-GSC-11367-1] c 44 N74-19692

Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

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[NASA-CASE-LAR-10337-1] c 24 N75-30260

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[NASA-CASE-LEW-12094-1] c 76 N76-25049

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

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[NASA-CASE-MFS-23518-3] c 44 N80-16452

Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

Inorganic spark chamber frame and method of making the same
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Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

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Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608

Programmable remapper with single flow architecture
[NASA-CASE-MS-21481-1] c 60 N91-13890

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Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-14472-1] c 43 N77-10584

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[NASA-CASE-XGS-10518] c 16 N71-28554

Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256

External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

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[NASA-CASE-XGS-04993] c 14 N71-17574

Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

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Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

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Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000

Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

Fluid mass sensor for a zero gravity environment
[NASA-CASE-MS-14653-1] c 35 N77-19385

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[NASA-CASE-XAC-00073] c 14 N70-34813

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[NASA-CASE-XMF-04134] c 14 N71-23755

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[NASA-CASE-NPO-10185] c 10 N71-26339

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Rocket engine injector Patent
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Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

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Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461

Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444

Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455

Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

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Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456

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[NASA-CASE-NPO-15292-1] c 35 N83-27184

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[NASA-CASE-GSC-12223-1] c 60 N83-25378

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[NASA-CASE-XER-09519] c 14 N71-18483

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Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-25707-1] c 35 N85-29214

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[NASA-CASE-XLE-00397] c 15 N70-36492

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[NASA-CASE-XFR-00811] c 15 N70-36901

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[NASA-CASE-XMF-01887] c 15 N71-10617

Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782

Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628

Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089

Method of making foamed materials in zero gravity
[NASA-CASE-MFS-09902] c 15 N72-11387

Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514

Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405

Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

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[NASA-CASE-MFS-22636-1] c 37 N76-22540

- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
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[NASA-CASE-NPO-15453-1] c 71 N83-32515
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[NASA-CASE-MFS-28139-1] c 29 N87-18679

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- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
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[NASA-CASE-NPO-14109-1] c 28 N80-23471
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[NASA-CASE-NPO-14110-1] c 28 N81-15119

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- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
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- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
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[NASA-CASE-XLA-08254] c 14 N71-26161
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- Logical function generator
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- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

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[NASA-CASE-XNP-05821] c 03 N71-11056
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[NASA-CASE-XMF-05835] c 08 N71-12504
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[NASA-CASE-NPO-10821] c 03 N71-19545
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[NASA-CASE-XNP-01318] c 10 N71-23033
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[NASA-CASE-NPO-10150] c 08 N71-24650
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[NASA-CASE-NPO-10591] c 03 N72-22041
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[NASA-CASE-KSC-11392-1] c 74 N90-22383
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[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

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[NASA-CASE-XLE-03280] c 14 N71-23093
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- Electronic precipitator control
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[NASA-CASE-XNP-01567] c 15 N70-41310

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[NASA-CASE-MFS-21728-1] c 35 N74-27865
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[NASA-CASE-MFS-22189-1] c 35 N75-19615
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[NASA-CASE-NPO-14473-1] c 37 N80-23654
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Device for coupling a first vehicle to a second vehicle
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- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Compression test apparatus
[NASA-CASE-MS-C-18723-1] c 35 N83-21312
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MS-C-18791-1] c 37 N83-36482
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MS-C-20319-1] c 37 N85-21649
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N90-26341
- Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
- MECHANICAL DRIVES**
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
- Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Geneva mechanism --- including star wheel and driver
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- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- Mechanical sequencer
[NASA-CASE-MS-C-19536-1] c 37 N77-22482
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- MECHANICAL ENGINEERING**
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Shaft seal assembly for high speed and high pressure applications
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- MECHANICAL MEASUREMENT**
- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- MECHANICAL PROPERTIES**
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- Polyphenylquinoxalines containing alkyleneedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- MECHANICS (PHYSICS)**
- Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-C-12111-1] c 02 N71-11039
- MECHANIZATION**
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- MEDICAL ELECTRONICS**
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- MEDICAL EQUIPMENT**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- Laser machining apparatus Patent
[NASA-CASE-HON-10541-2] c 15 N71-27135
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- Micro-fluid exchange coupling apparatus
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- Urine collection device
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- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- MEDICAL SCIENCE**
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
- MEDICAL SERVICES**
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
- MELTING**
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
- MELTING POINTS**
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- MELTS (CRYSTAL GROWTH)**
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898
- MEMBRANE STRUCTURES**
Liquid junction and method of fabricating the same
Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- MEMBRANES**
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
- MEMORY**
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- MEMORY (COMPUTERS)**
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
- Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
- Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
- Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
- MENTAL PERFORMANCE**
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
- MERCURY (METAL)**
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- MERCURY CADMIUM TELLURIDES**
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
- MERCURY VAPOR**
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- MESSAGE PROCESSING**
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- METABOLIC WASTES**
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- METABOLISM**
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
- METAL BONDING**
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Apparatus for the determination of the existence or non-existence of a bonding between two members
Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- METAL COATINGS**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Silicoid coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
- METAL COMPOUNDS**
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
- METAL CUTTING**
- Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
- Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- METAL FATIGUE**
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
- METAL FIBERS**
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- METAL FILMS**
- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- METAL FINISHING**
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- METAL FLUORIDES**
- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-13503
- METAL FOILS**
- Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- High temperature insulation barrier composite
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- METAL FUELS**
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL HALIDES**
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL HYDRIDES**
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- METAL IONS**
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[NASA-CASE-HQN-10364] c 06 N71-27363
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
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- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- X-ray determination of parts alignment
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- METAL MATRIX COMPOSITES**
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[NASA-CASE-XLE-02428] c 17 N70-33288
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Self-lubricating gears and other mechanical parts Patent
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- Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of making reinforced composite structure
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- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
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- Method for alleviating thermal stress damage in laminates
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- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- METAL OXIDE SEMICONDUCTORS**
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[NASA-CASE-MFS-21433] c 09 N73-20232
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- METAL OXIDES**
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
- Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
- Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
- Method of forming oxide coatings --- for solar collector heating panels
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- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- Apparatus for producing oxidation protection coatings for polymers
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[NASA-CASE-LEW-14072-3] c 27 N87-23736
- METAL PARTICLES**
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[NASA-CASE-XLE-02083] c 03 N69-39983
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL PLATES**
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- Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Multicolor printing plate joining
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- High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- METAL POWDER**
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911

Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

Production of metal powders
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Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360

Electrodes for solid state devices
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Method of making pressure tight seal for super alloy
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Method of making an explosively welded scarf joint
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Process for making sheets with parallel pores of uniform size
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Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340

Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

METAL SHELLS
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[NASA-CASE-LAR-12862-1] c 27 N84-27886

METAL SPINNING
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

METAL SPRAYING
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[NASA-CASE-GSC-12880-1] c 26 N86-32550

METAL STRIPS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411

Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058

Method of making tubes Patent
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High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

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Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151

Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
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Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
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Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

Ion-beam nitriding of steels
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Arc-textured high emittance radiator surfaces
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[NASA-CASE-MFS-29576-1] c 25 N91-15368

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[NASA-CASE-NPO-14782-1] c 36 N82-28616

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
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METAL VAPORS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

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Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797

Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799

Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

Method and apparatus for precision sizing and joining of large diameter tubes Patent
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Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461

Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

METAL-METAL BONDING
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651

Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

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Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

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Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906

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[NASA-CASE-LEW-13639-1] c 26 N84-33555

Method of coating a substrate with a rapidly solidified metal
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Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-13803

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[NASA-CASE-XGS-06306] c 17 N71-16044

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Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

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Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

METALS
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065

Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502

Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482

Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467

Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

METASTABLE STATE
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[NASA-CASE-NPO-13993-1] c 72 N79-13826

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[NASA-CASE-ARC-11503-1] c 35 N85-34374

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Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487

Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

METEORITES
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

METEORITIC DAMAGE
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

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Apparatus for photographing meteors
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[NASA-CASE-MSC-12423-1] c 91 N76-30131

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Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897

Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

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[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

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Polymer of phosphonimethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
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The 1-(diorganoxyphosphonyl)-methyl-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133

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[NASA-CASE-ARC-11425-3] c 23 N90-23475

- Methyl substituted polyimides containing carbonyl and ether connecting groups
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- METHYLENE**
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[NASA-CASE-ARC-11370-1] c 27 N84-22750
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General method of pattern classification using the two-domain theory
[NASA-CASE-MS-C-21737-1] c 61 N91-13911
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- MICROANALYSIS**
Plural output optometric sample cell and analysis system
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- MICROBALANCES**
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Microbalance --- for measuring particle mass
[NASA-CASE-MS-C-11242] c 35 N78-17358
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[NASA-CASE-NPO-14845-1] c 27 N82-28442
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Variable angle tube holder
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[NASA-CASE-LAR-11354-1] c 35 N75-27330
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- MICROCHANNELS**
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- MICROCRACKS**
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
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[NASA-CASE-LAR-14338-1] c 24 N90-26881
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Microcircuit negative cutter
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Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Active tuned circuit
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Automatic visual inspection system for microelectronics
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Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
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[NASA-CASE-MFS-15670-1] c 33 N82-33634
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- MICROFIBERS**
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
- MICROFILMS**
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- MICROGRAVITY APPLICATIONS**
Spiral vane bioreactor
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[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
- MICROMETEORIODS**
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-C-12109] c 18 N71-26285
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
- MICROMETERS**
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- MICROMINIATURIZATION**
Compensating radiometer
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- MICROORGANISMS**
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
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[NASA-CASE-NPO-16203-1] c 23 N85-35227
- MICROPARTICLES**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
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Audio signal processor Patent
[NASA-CASE-MS-C-12223-1] c 07 N71-26181
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
- MICROPOROSITY**
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MS-C-21487-1] c 25 N90-16887
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Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
- MICROSCOPES**
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N90-27113
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
- MICROSTRIP ANTENNAS**
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[NASA-CASE-MS-C-18334-1] c 32 N80-32604
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015
- MICROSTRIP TRANSMISSION LINES**
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- MICROSTRUCTURE**
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
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[NASA-CASE-GSC-10709-1] c 28 N71-25213
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- MICROWAVE AMPLIFIERS**
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- MICROWAVE ANTENNAS**
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-18606-1] c 32 N82-11336

MICROWAVE CIRCUITS

Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

MICROWAVE COUPLING

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MICROWAVE EQUIPMENT

Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722

Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808

Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214

Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430

Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373

MICROWAVE FILTERS

High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606

High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

MICROWAVE FREQUENCIES

Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721

Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

MICROWAVE OSCILLATORS

Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

High Q quasi-optical tunable resonator
[NASA-CASE-NPO-17919-1-CU] c 33 N91-15489

MICROWAVE RADIOMETERS

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281

Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

MICROWAVE REFLECTOMETERS

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

MICROWAVE RESONANCE

Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MICROWAVE SCATTERING

Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

MICROWAVE SENSORS

Method and apparatus for sensor fusion
[NASA-CASE-MS-21334-1] c 32 N89-25360

MICROWAVE SWITCHING

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

MICROWAVE TRANSMISSION

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

MICROWAVE TUBES

Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208

MICROWAVES

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598

Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722

Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MS-18675-1] c 32 N84-22820

Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

MIDAIR COLLISIONS

Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

MILLING (MACHINING)

Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

MILLING MACHINES

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

MIMD (COMPUTERS)

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

MINERAL DEPOSITS

Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

MINERAL METABOLISM

Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MS-14276-1] c 52 N77-14737

MINES (EXCAVATIONS)

Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963

MINIATURE ELECTRONIC EQUIPMENT

Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612

Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

MINIATURIZATION

Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Miniature carbon dioxide sensor and methods
[NASA-CASE-MS-13332-1] c 14 N72-21408

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635

Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

MINING

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

MINORITY CARRIERS

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

MIRRORS

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-12105-1] c 14 N72-21409

Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673

Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MS-12611-1] c 12 N76-15189

Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
- MIS (SEMICONDUCTORS)**
- Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- MISALIGNMENT**
- Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N90-26341
- MISSILE CONTROL**
- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
- MISSILE LAUNCHERS**
- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- MISSILE STRUCTURES**
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- MISSILES**
- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- MITOSIS**
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- MIXERS**
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
- Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
- MIXING**
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
- Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- MIXING CIRCUITS**
- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
- MIXTURES**
- Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
- Process for producing tris *s*(*n*-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- MOBILE COMMUNICATION SYSTEMS**
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- MOBILITY**
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
- MODE TRANSFORMERS**
- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
- Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- MODELS**
- Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N91-13687
- MODEMS**
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- MODES (STANDING WAVES)**
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- MODULATION**
- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MS-C-18808-1] c 32 N90-20280
- MODULATORS**
- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- MODULES**
- Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Shuttle-launch triangular space station
[NASA-CASE-MS-C-20676-1] c 18 N86-24729
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
- Bus programmable slave module
[NASA-CASE-MS-C-21387-1] c 61 N90-16411
- MODULUS OF ELASTICITY**
- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
- MOIRE INTERFEROMETRY**
- Three dimensional moire pattern alignment
[NASA-CASE-MS-C-21416-1] c 74 N91-14000
- MOISTURE**
- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- MOISTURE CONTENT**
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Moisture content and gas sampling device
[NASA-CASE-MS-C-18866-1] c 35 N85-29213
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- MOISTURE METERS**
- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- MOISTURE RESISTANCE**
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- MOLDING MATERIALS**
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- MOLDS**
- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- MOLECULAR BEAM EPITAXY**
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
- MOLECULAR BEAMS**
- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- MOLECULAR CHAINS**
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
- MOLECULAR GASES**
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- MOLECULAR PUMPS**
- Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- MOLECULAR RELAXATION**
- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- MOLECULAR ROTATION**
- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- MOLECULAR SPECTRA**
- Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- MOLECULAR SPECTROSCOPY**
- Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MOLECULAR STRUCTURE

Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

MOLECULAR WEIGHT

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Polyimides via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

MOLECULES

Stabilization of He₂(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263

MOLTEN SALT ELECTROLYTES

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

MOLYBDENUM

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MOMENTUM TRANSFER

Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

MONATOMIC GASES

Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS

Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
Biofilm monitoring coupon system
[NASA-CASE-MSC-21585-1] c 51 N91-13857

MONOCHROMATIC RADIATION
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

MONOCHROMATORS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

MONOMERS
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Phosphorus-containing imide resins
[NASA-CASE-LAR-11368-1] c 27 N83-31854
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Ethyne terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

MONOPOLE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249

Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MONOPULSE ANTENNAS
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SIMULATORS
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

MOUNTING
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

Alignment positioning mechanism
[NASA-CASE-MS-C-21502-1] c 37 N90-26341

Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-13581

Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-13730

Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590

Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617

MOVING TARGET INDICATORS

Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULTIBEAM ANTENNAS

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Switched steerable multiple beam antenna system
[NASA-CASE-MS-C-20873-1-SB] c 32 N89-11961

MULTICHANNEL COMMUNICATION

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012

Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MS-C-14180-1] c 52 N76-14757

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

MULTIPACTOR DISCHARGES

High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION

Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS

Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

MULTIPLE OUTPUT PROGRAMS

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

System for producing chroma signals
[NASA-CASE-MS-C-14683-1] c 74 N77-18893

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MS-C-21170-1] c 17 N91-14371

MULTIPLIERS

Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

MULTIPROCESSING (COMPUTERS)

Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

MULTISPECTRAL BAND SCANNERS

Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-C-14472-1] c 43 N77-10584

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297

Multispectral scanner optical system
[NASA-CASE-MS-C-18255-1] c 74 N80-33210

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS

Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

MULTISPECTRAL PHOTOGRAPHY

Multispectral imaging system
[NASA-CASE-MS-C-12404-1] c 23 N73-13661

Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-C-14472-1] c 43 N77-10584

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MS-C-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES

Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

Frangible link
[NASA-CASE-MS-C-11849-1] c 15 N72-22488

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTISTATIC RADAR

Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

MULTIVIBRATORS

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES

Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

MUSCULAR FUNCTION

Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MUSCULOSKELETAL SYSTEM

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

MYOCARDIUM

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MYOPIA

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

N

N-TYPE SEMICONDUCTORS

Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

NACELLES

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

NAPHTHALENE

Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

NARROWBAND

Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802

NASA PROGRAMS

Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

NAVIGATION

Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

NAVIGATION AIDS

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

NAVIGATION INSTRUMENTS

Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

NAVIGATION SATELLITES

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-13787

NEAR INFRARED RADIATION

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

NEGATIVE FEEDBACK

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

NEGATIVE IONS

Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

NEODYMIUM LASERS

Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

NERVES

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NETWORK SYNTHESIS

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

NEURAL NETS

Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384

Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-13995

Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769

NEUROGLIA

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

NEUROLOGY

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NEURONS

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

NEUTRALIZERS

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

NEUTRON EMISSION

Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

NICKEL

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

NICKEL ALLOYS

High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283

Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616

Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026

Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535

Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280

Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

NICKEL CADMIUM BATTERIES

Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859

Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

NICKEL COATINGS

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414

Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599

NICKEL COMPOUNDS

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

NICKEL HYDROGEN BATTERIES

Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874

NICKEL PLATE

Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

NICKEL ZINC BATTERIES

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

NIOBIUM

Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

NIOBIUM COMPOUNDS

Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

NITRAMINE PROPELLANTS

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

NITRATION

The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133

Some 1-((diorganooxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

NITRIC OXIDE

Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

NITRIDES

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

NITRIDING

Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

NITRILES

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276

Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

NITRO COMPOUNDS

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

NITROAMINES

Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

NITROGEN

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

NITROGEN COMPOUNDS

Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

NITROGEN OXIDES

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497

Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

NITROGEN TETROXIDE

Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

NITROGUANIDINE

Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

NOBLE METALS

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

NODES (STANDING WAVES)

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

NOISE GENERATORS

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

NOISE METERS

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614

Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

NOISE REDUCTION

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
- Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
- Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
- NOISE TEMPERATURE**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- NOISE THRESHOLD**
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
- NONADIABATIC CONDITIONS**
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- NONDESTRUCTIVE TESTS**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
- Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
- Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
- Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
- Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
- Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
- NONEQUILIBRIUM CONDITIONS**
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
- NONEQUILIBRIUM PLASMAS**
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- NONEQUILIBRIUM RADIATION**
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
- NONFLAMMABLE MATERIALS**
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- NONLINEAR FEEDBACK**
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
- Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
- NONLINEAR FILTERS**
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- NONLINEAR OPTICS**
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263
- NONLINEAR SYSTEMS**
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
- Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- NORMAL DENSITY FUNCTIONS**
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- NOSE CONES**
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- NOSE WHEELS**
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
- NOTCH STRENGTH**
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- NOTCH TESTS**
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- NOTCHES**
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- NOZZLE DESIGN**
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
- Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
- Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
- Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
- Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
- Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
- Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
- NOZZLE FLOW**
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
- Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
- NOZZLE GEOMETRY**
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
- NOZZLE INSERTS**
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
- NUCLEAR EXPLOSION EFFECT**
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- NUCLEAR FUEL ELEMENTS**
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
- NUCLEAR MAGNETIC RESONANCE**
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- NUCLEAR POWER PLANTS**
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHO-03673] c 33 N71-29046
- NUCLEAR PUMPED LASERS**
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
- NUCLEAR PUMPING**
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- NUCLEAR REACTOR CONTROL**
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
- NUCLEAR REACTORS**
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- NUCLEATE BOILING**
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

NUCLEOPHILES

Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

NULL ZONES

Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

NUMBER THEORY

Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

NUMERICAL ANALYSIS

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

NUMERICAL CONTROL

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

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O RING SEALS

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546

High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444

OBLIQUE WINGS

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

OBSERVATION

Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

OBSTACLE AVOIDANCE

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

OCCLUSION

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

OCEAN CURRENTS

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

OCEAN DATA ACQUISITIONS SYSTEMS

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

OCEAN SURFACE

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-13787

OCEAN THERMAL ENERGY CONVERSION

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

ODORS

Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561

OFFSHORE PLATFORMS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542

OHMMETERS

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497

Four-terminal electrical testing device --- initiator bridgwire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

OIL EXPLORATION

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

OIL RECOVERY

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

OILS

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

OLIGOMERS

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

OMNIDIRECTIONAL ANTENNAS

Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888

Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

ON-LINE SYSTEMS

Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

ONBOARD EQUIPMENT

Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039

Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

OPEN CHANNEL FLOW

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

OPERATING TEMPERATURE

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

OPERATIONAL AMPLIFIERS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

OPHTHALMOLOGY

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062

Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

OPTICAL COMMUNICATION

Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389

Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053

Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

Optical correlators
[NASA-CASE-MSC-21509-1] c 74 N91-13997

Optical joint correlation for real-time tracking
[NASA-CASE-MSC-21509-1] c 74 N91-13997

Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017

Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749

Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666

Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

- Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
- OPTICAL DENSITY**
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- OPTICAL DISKS**
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
- OPTICAL EMISSION SPECTROSCOPY**
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
- OPTICAL EQUIPMENT**
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Method and apparatus for producing an image from a transparent object
[NASA-CASE-XLA-11989-1] c 74 N77-28932
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
- OPTICAL FIBERS**
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
- OPTICAL FILTERS**
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- OPTICAL GYROSCOPES**
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- OPTICAL HETERODYNING**
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- OPTICAL MATERIALS**
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- OPTICAL MEASUREMENT**
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample
[NASA-CASE-XGS-05291] c 23 N71-16341
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- OPTICAL MEASURING INSTRUMENTS**
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- OPTICAL MEMORY (DATA STORAGE)**
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
- OPTICAL PATHS**
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- OPTICAL POLARIZATION**
Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
- OPTICAL PROPERTIES**
Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- OPTICAL PUMPING**
Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- OPTICAL PYROMETERS**
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- OPTICAL RADAR**
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
- OPTICAL RANGE FINDERS**
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
- OPTICAL REFLECTION**
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565

- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- OPTICAL RESONANCE**
Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- OPTICAL SCANNERS**
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
- Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-08089] c 21 N70-35427
- Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
- Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
- OPTICAL SWITCHING**
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
- OPTICAL TRACKING**
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
- OPTICAL TRANSFER FUNCTION**
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
- OPTICAL WAVEGUIDES**
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

OPTIMIZATION

- Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407

OPTOELECTRONIC DEVICES

- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

OPTOGALVANIC SPECTROSCOPY

- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753

ORAL HYGIENE

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ORBIT TRANSFER VEHICLES

- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

ORBITAL ASSEMBLY

- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
- Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138
- Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

ORBITAL LAUNCHING

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

ORBITAL MANEUVERING VEHICLES

- Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

ORBITAL MANEUVERS

- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

ORBITAL MECHANICS

- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

ORBITAL SERVICING

- Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

ORDNANCE

- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

ORGANIC CHEMISTRY

- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

ORGANIC COMPOUNDS

- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Dicyanooacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

ORGANIC MATERIALS

- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

ORGANIC SILICON COMPOUNDS

- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

ORGANIC SULFUR COMPOUNDS

- Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

ORGANOMETALLIC COMPOUNDS

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Trialkyl-dihaloantimony and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

ORGANOMETALLIC POLYMERS

- Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

ORIFICE FLOW

- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-13657

ORIFICES

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
- Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-13657

ORTHO HYDROGEN

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHO PARA CONVERSION

- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHOGONAL MULTIPLEXING THEORY

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

ORTHOGONALITY

- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

ORTHOPEDICS

- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

ORTHOTROPIC CYLINDERS

- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
- Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

OSCILLATING FLOW

- Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

OSCILLATION DAMPERS

- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
- Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

- Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- OSCILLATORS**
- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
- Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
- OSCILLATORS**
- Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
- Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
- Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
- OSCILLOSCOPES**
- Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- OUTER PLANETS EXPLORERS**
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- OUTGASSING**
- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
- Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
- Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
- OUTLET FLOW**
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- OUTPUT**
- Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Ovens**
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- OVERPRESSURE**
- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- OVERVOLTAGE**
- Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
- Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- OXAZOLE**
- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- OXIDATION**
- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076
- Novel polyimide compositions based on 4,4'-isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- OXIDATION RESISTANCE**
- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
- Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
- Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Nickel ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
- OXIDATION-REDUCTION REACTIONS**
- Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
- Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
- OXIDE FILMS**
- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
- Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Oxides**
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- OXIDIZERS**
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- OXIMETRY**
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- OXYGEN**
- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
- Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
- Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
- Device for quickly sensing the amount of O₂ in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
- OXYGEN ATOMS**
- Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
- OXYGEN CONSUMPTION**
- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- OXYGEN FLUORIDES**
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- OXYGEN ISOTOPES**
- Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
- OXYGEN METABOLISM**
- Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

OXYGEN PLASMA

Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

OXYGEN REGULATORS

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

OXYGEN SUPPLY EQUIPMENT

Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

OZONE

Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

P**P-I-N JUNCTIONS**

High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

P-N JUNCTIONS

Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Radiation resistant silicon semiconductor devices
Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Biomedical radiation detecting probe
Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Method of making electrical contact on silicon solar cell and resultant product
Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere
Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

P-TYPE SEMICONDUCTORS

Semiconductor material and method of making same
Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

PACKAGES

Impact testing machine
Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

PACKAGING

Folding apparatus
Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Reflector space satellite
Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482

PACKET TRANSMISSION

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

PACKING DENSITY

Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

PACKINGS (SEALS)

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD

Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

PAINTS

Intumescent paints
Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

Alkali metal silicate protective coating
Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment
Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

PALLADIUM

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS

Prevention of pressure build-up in electrochemical cells
Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS

All-directional fastener
Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Panelized high performance multilayer insulation
Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication
Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel
Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

PANORAMIC SCANNING

Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

PAPER (MATERIAL)

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

PAPERS

Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN

Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS

Antenna beam-shaping apparatus
Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system
Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

PARABOLIC REFLECTORS

Parabolic reflector horn feed with spillover correction
Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator
Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector
Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

PARABOLOID MIRRORS

Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

PARACHUTE DESCENT

Parachute glider
Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system
Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter
Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breach high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES

System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

PARAGLIDERS

Parachute glider
Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

PARALLAX

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL COMPUTERS

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

PARALLEL PLATES

Parallel plate viscometer
Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

PARALLEL PROCESSING (COMPUTERS)

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
- Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384
- Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
- Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
- PARAMETER IDENTIFICATION**
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
- PARAMETRIC AMPLIFIERS**
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N92-25258
- Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- PARAMETRIC FREQUENCY CONVERTERS**
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- PARAWINGS**
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- PARKING**
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
- PARTIAL PRESSURE**
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- PARTICLE ACCELERATION**
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
- PARTICLE ACCELERATOR TARGETS**
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
- Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- PARTICLE BEAMS**
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- PARTICLE COLLISIONS**
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- PARTICLE DENSITY (CONCENTRATION)**
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- PARTICLE EMISSION**
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- PARTICLE ENERGY**
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- PARTICLE INTERACTIONS**
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
- PARTICLE MASS**
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
- PARTICLE MOTION**
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
- PARTICLE PRODUCTION**
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- PARTICLE SIZE DISTRIBUTION**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858
- PARTICLE TRACKS**
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
- PARTICLE TRAJECTORIES**
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- PARTICLES**
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
- Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
- Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
- PARTICULATE SAMPLING**
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N90-27113
- High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340
- PARTICULATES**
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340
- PASSAGEWAYS**
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- PASSENGERS**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- PASSIVE SATELLITES**
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
- Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
- PASSIVITY**
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684
- PASTES**
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
- PATENTS**
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- PATIENTS**
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
- PATTERN RECOGNITION**
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
- Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
- Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360
- Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400
- General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
- PAYLOAD DELIVERY (STS)**
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM**
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- PAYLOAD RETRIEVAL (STS)**
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- PAYLOADS**
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
- Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
- PCM TELEMETRY**
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
- PEELING**
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
- PEENING**
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- PELLETS**
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

PELTIER EFFECTS

- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PELVIS

- Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

PENETRANTS

- Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

PENETRATION

- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS

- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION

- Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS

- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Polymerizable disilanolols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkylenoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

PERFLUOROALKANE

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES

- Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

PERFORATED SHELLS

- Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION

- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

PERFORMANCE TESTS

- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033

- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546
A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

PERIODIC VARIATIONS

- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)

- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

PERISCOPES

- Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

PERMANENT MAGNETS

- Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

PERMEABILITY

- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PERMITTIVITY

- Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

PEROXIDES

- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSPIRATION

- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION

- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

PERTURBATION THEORY

- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR

- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHASE COHERENCE

- Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONJUGATION

- Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

PHASE CONTRAST

- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL

- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 33 N71-27271
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS

- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS

- Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

PHASE DEVIATION

- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

PHASE ERROR

- Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

PHASE LOCK DEMODULATORS

- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

PHASE LOCKED SYSTEMS

- Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140

Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205

Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012

Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887

Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185

PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531

Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076

Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

PHASE MODULATION

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544

Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142

Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

Sweep group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

Quadrature phase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338

Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

PHASE SHIFT

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208

Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432

JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

PHASE SHIFT CIRCUITS

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517

Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172

Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204

Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145

Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

PHASE SHIFT KEYING

Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811

Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654

Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705

Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331

Method and apparatus for quadrature-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001

Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

Multiple symbol differential detection
[NASA-CASE-NPO-17898-1-CU] c 32 N91-13596

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

PHASE SWITCHING INTERFEROMETERS

Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

PHASE TRANSFORMATIONS

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983

Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635

Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

PHASE VELOCITY

Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

PHASED ARRAYS

Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

PHENOLIC RESINS

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphenylphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

PHENOLS

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

PHENYLS

The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

Bis(4-(3,4-dimethylenepyrrolydyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

Bis (4-(3,4-dimethylene-pyrrolydyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

PHONOCARDIOGRAPHY

Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606

Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

PHOSPHATES

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

PHOSPHAZENE

Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carboranyl cyclotriphenylphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Carboranyl imethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

Maleimido substituted aromatic cyclotriphenylphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphenylphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

Aromatic cyclotriphenylphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

PHOSPHINES

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOSPHONITRILES

Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

PHOSPHORIC ACID

Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

PHOSPHORS

High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

PHOSPHORUS

PHOSPHORUS

- Photoelectrochemical cells including chalcogenophosphate photoelectrodes [NASA-CASE-LAR-12958-1] c 44 N84-23019
- Fire-resistant phosphorus containing polyimides and copolyimides [NASA-CASE-ARC-11522-2] c 27 N85-34280
- The 1-((diorganooxyphosphonyl)methyl)-2,4- and -2,6-diamido benzenes [NASA-CASE-ARC-11425-4] c 23 N90-20133
- Some 1-((diorganooxyphosphonyl)methyl)-2,4- and -2,6-dinitro-benzenes [NASA-CASE-ARC-11425-3] c 23 N90-23475
- PHOSPHORUS COMPOUNDS**
- Phosphorus-containing bisimide resins [NASA-CASE-ARC-11321-1] c 27 N81-27272
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer [NASA-CASE-ARC-11506-2] c 23 N86-32525
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives [NASA-CASE-ARC-11425-2] c 23 N87-28605
- PHOSPHORUS POLYMERS**
- Process for the preparation of polycarboranylphosphazenes --- thermal insulation [NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carboranylcyclotriphosphazenes and their polymers --- thermal insulation [NASA-CASE-ARC-11176-1] c 27 N82-18389
- Phosphorus-containing imide resins [NASA-CASE-ARC-11368-2] c 27 N85-21347
- PHOTOABSORPTION**
- Photomechanical transducer [NASA-CASE-NPO-14363-1] c 39 N81-25400
- PHOTOCATHODES**
- Photoelectric energy spectrometer Patent [NASA-CASE-XNP-04161] c 14 N71-15599
- III-V photocathode with nitrogen doping for increased quantum efficiency [NASA-CASE-NPO-12134-1] c 33 N76-31409
- PHOTOCHEMICAL REACTIONS**
- Apparatus for photon excited catalysis [NASA-CASE-NPO-13566-1] c 25 N77-32255
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field [NASA-CASE-LEW-12465-1] c 25 N78-25148
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments [NASA-CASE-MS-C-16074-1] c 27 N80-26446
- Real-time dynamic holographic image storage device [NASA-CASE-LAR-13989-1] c 35 N91-13694
- PHOTOCHROMISM**
- All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices [NASA-CASE-NPO-17612-1-CU] c 74 N90-27487
- PHOTOCONDUCTIVE CELLS**
- Two-dimensional radiant energy array computers and computing devices [NASA-CASE-GSC-11839-1] c 60 N77-14751
- Plural output optometric sample cell and analysis system [NASA-CASE-NPO-10233-1] c 74 N78-33913
- Photocapacitive image converter [NASA-CASE-LAR-12513-1] c 44 N82-32841
- PHOTOCONDUCTIVITY**
- Photoetching of metal-oxide layers [NASA-CASE-ERC-10108] c 06 N72-21094
- PHOTOCONDUCTORS**
- Electronic divider and multiplier using photocells Patent [NASA-CASE-XFR-05637] c 09 N71-19480
- PHOTODIODES**
- Shock isolator for operating a diode laser on a closed-cycle refrigerator [NASA-CASE-GSC-12297-1] c 37 N79-28549
- Focal plane array optical proximity sensor [NASA-CASE-NPO-15155-1] c 74 N85-22139
- PHOTODISSOCIATION**
- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field [NASA-CASE-LEW-12465-1] c 25 N78-25148
- PHOTOELECTRIC CELLS**
- Sun tracker with rotatable plane-parallel plate and two photocells Patent [NASA-CASE-XGS-01159] c 21 N71-10678
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell [NASA-CASE-NPO-12127-1] c 91 N74-13130
- Noncontacting method for measuring angular deflection [NASA-CASE-LAR-12178-1] c 74 N80-21138

- Photoelectric detection system --- manufacturing automation [NASA-CASE-MFS-23776-1] c 33 N82-28545
- PHOTOELECTRIC EFFECT**
- Photoelectric energy spectrometer Patent [NASA-CASE-XNP-04161] c 14 N71-15599
- PHOTOELECTRIC EMISSION**
- High resolution threshold photoelectron spectroscopy by electron attachment [NASA-CASE-NPO-14078-1] c 72 N80-14877
- PHOTOELECTRIC MATERIALS**
- Light radiation direction indicator with a baffle of two parallel grids [NASA-CASE-XNP-03930] c 14 N69-24331
- Use of thin film light detector [NASA-CASE-NPO-11432-2] c 35 N74-15090
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes [NASA-CASE-LAR-12958-1] c 44 N84-23019
- Increased voltage photovoltaic cell [NASA-CASE-NPO-16155-1] c 44 N85-30475
- PHOTOELECTRICITY**
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes [NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOELECTROCHEMICAL DEVICES**
- Photoelectrochemical electrodes [NASA-CASE-NPO-15458-1] c 25 N84-12262
- Method for determining the point of zero zeta potential of semiconductor [NASA-CASE-LAR-12893-1] c 76 N85-30923
- PHOTOELECTRON SPECTROSCOPY**
- Photoelectron spectrometer with means for stabilizing sample surface potential [NASA-CASE-NPO-13772-1] c 35 N78-10429
- High resolution threshold photoelectron spectroscopy by electron attachment [NASA-CASE-NPO-14078-1] c 72 N80-14877
- Low intensity X-ray and gamma-ray spectrometer [NASA-CASE-GSC-12587-1] c 35 N82-32659
- PHOTOGRAPHIC EMULSIONS**
- Method for applying photographic resists to otherwise incompatible substrates [NASA-CASE-MS-C-18107-1] c 27 N81-25209
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere [NASA-CASE-MFS-23250-1] c 35 N82-11432
- PHOTOGRAPHIC EQUIPMENT**
- Apparatus and method for protecting a photographic device Patent [NASA-CASE-NPO-10174] c 14 N71-18465
- Method of treating the surface of a glass member [NASA-CASE-GSC-12110-1] c 27 N77-32308
- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object [NASA-CASE-NPO-14219-1] c 74 N81-17886
- PHOTOGRAPHIC FILM**
- Film feed camera having a detent means Patent [NASA-CASE-LAR-10686] c 14 N71-28935
- Exposure interlock for oscilloscope cameras [NASA-CASE-LAR-10319-1] c 14 N73-32322
- Optical noise suppression device and method --- laser light exposing film [NASA-CASE-MS-C-12640-1] c 74 N76-31998
- Selective image area control of X-ray film exposure density [NASA-CASE-NPO-13808-1] c 35 N78-15461
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere [NASA-CASE-MFS-23250-1] c 35 N82-11432
- Method and apparatus for making an optical element having a dielectric film [NASA-CASE-ARC-11611-1] c 74 N87-28416
- Variable magnification glancing incidence x ray telescope [NASA-CASE-MFS-28013-2] c 89 N91-14096
- PHOTOGRAPHIC MEASUREMENT**
- Means and method of measuring viscoelastic strain Patent [NASA-CASE-XNP-01153] c 32 N71-17645
- Impact measuring technique [NASA-CASE-LAR-10913] c 14 N72-16282
- TV fatigue crack monitoring system [NASA-CASE-LAR-11490-1] c 39 N78-16387
- PHOTOGRAPHIC PROCESSING**
- Method and apparatus for producing an image from a transparent object [NASA-CASE-GSC-11989-1] c 74 N77-28932
- Method of obtaining intensified image from developed photographic films and plates [NASA-CASE-MFS-23461-1] c 35 N79-10389

PHOTOGRAPHIC PROCESSING EQUIPMENT

- Drying apparatus for photographic sheet material [NASA-CASE-GSC-11074-1] c 14 N73-28489
- PHOTOGRAPHIC RECORDING**
- Method of obtaining permanent record of surface flow phenomena Patent [NASA-CASE-XLA-01353] c 14 N70-41366
- Focused image holography with extended sources Patent [NASA-CASE-ERC-10019] c 16 N71-15551
- Recording and reconstructing focused image holograms Patent [NASA-CASE-ERC-10017] c 16 N71-15567
- Method and means for recording and reconstructing holograms without use of a reference beam Patent [NASA-CASE-ERC-10020] c 16 N71-26154
- Multiple image storing system for high speed projectile holography [NASA-CASE-MFS-20596] c 14 N72-17324
- Phototropic composition of matter [NASA-CASE-XGS-03736] c 14 N72-22443
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel [NASA-CASE-LAR-11053-1] c 25 N74-18551
- PHOTOGRAPHY**
- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object [NASA-CASE-NPO-14219-1] c 74 N81-17886
- Photorefractor ocular screening system [NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
- PHOTOIONIZATION**
- A multichannel photoionization chamber for absorption analysis Patent [NASA-CASE-ERC-10044-1] c 14 N71-27090
- PHOTOLYSIS**
- Solar photolysis of water [NASA-CASE-NPO-13675-1] c 44 N77-32580
- Solar photolysis of water [NASA-CASE-NPO-14126-1] c 44 N79-11470
- PHOTOMAPPING**
- Window defect planar mapping technique [NASA-CASE-MS-C-19442-1] c 74 N77-10899
- PHOTOMASKS**
- Method for applying photographic resists to otherwise incompatible substrates [NASA-CASE-MS-C-18107-1] c 27 N81-25209
- PHOTOMECHANICAL EFFECT**
- Photomechanical transducer [NASA-CASE-NPO-14363-1] c 39 N81-25400
- PHOTOMETERS**
- Interferometer direction sensor Patent [NASA-CASE-NPO-10320] c 14 N71-17655
- Method and device for determining battery state of charge Patent [NASA-CASE-NPO-10194] c 03 N71-20407
- Light position locating system Patent [NASA-CASE-XNP-01059] c 23 N71-21821
- Fluid flow meter with comparator reference means Patent [NASA-CASE-XGS-01331] c 14 N71-22996
- Two color horizon sensor [NASA-CASE-ERC-10174] c 14 N72-25409
- Infrared detectors [NASA-CASE-LAR-10728-1] c 14 N73-12445
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials [NASA-CASE-ARC-10633-1] c 25 N74-26947
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols [NASA-CASE-GSC-12088-1] c 74 N78-13874
- Magneto-optic detection system with noise cancellation [NASA-CASE-NPO-11954-1] c 35 N78-29421
- Alternating gradient photodetector [NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
- PHOTOMICROGRAPHY**
- Stereo photomicrography system [NASA-CASE-LAR-10176-1] c 14 N72-20380
- Hand-held photomicroscope [NASA-CASE-ARC-10468-1] c 14 N73-33361
- Method of examining microcircuit patterns [NASA-CASE-NPO-16299-1] c 33 N87-14594
- PHOTOMULTIPLIER TUBES**
- Canopus detector including automotive gain control of photomultiplier tube Patent [NASA-CASE-XNP-03914] c 21 N71-10771
- Electronic divider and multiplier using photocells Patent [NASA-CASE-XFR-05637] c 09 N71-19480
- Coincidence apparatus for detecting particles [NASA-CASE-XLA-07813] c 14 N72-17328

- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- PHOTON BEAMS**
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- PHOTON-ELECTRON INTERACTION**
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- PHOTONS**
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- PHOTOSENSITIVITY**
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- PHOTOTHERMAL CONVERSION**
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- PHOTOTRANSISTORS**
- Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
- High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-13995
- PHOTOTROPISM**
- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- PHOTOVISCOELASTICITY**
- Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
- PHOTOVOLTAIC CELLS**
- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
- Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
- PHOTOVOLTAIC CONVERSION**
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- PHOTOVOLTAIC EFFECT**
- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- PHthalATES**
- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- PHthalOCYANIN**
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
- Metal (2,4,4',4') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- PHYSICAL EXERCISE**
- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
- PHYSICAL PROPERTIES**
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- PHYSIOLOGICAL EFFECTS**
- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- PHYSIOLOGICAL TESTS**
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- PHYSIOLOGY**
- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
- Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
- PIERCING**
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858
- PIEZOELECTRIC CRYSTALS**
- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- CDS solid state phase insensitive ultrasonic transducer --- annealing dardium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- PIEZOELECTRIC GAGES**
- Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- PIEZOELECTRIC TRANSDUCERS**
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- PIEZOELECTRICITY**
- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872
- PIEZORESISTIVE TRANSDUCERS**
- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- PIGMENTS**
- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- PILOT TRAINING**
- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- PILOTS (PERSONNEL)**
- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
- PINCH EFFECT**
- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- PINHOLE CAMERAS**
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- PINS**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
- PINTLES**
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- PIPE FLOW**
- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
- PIPELINES**
- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
- PIPELINING (COMPUTERS)**
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
- Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
- Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

PIPES (TUBES)
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MS-C-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MS-C-13609-1] c 05 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MS-C-18430-1] c 37 N82-24491
Open ended tubing cutters
[NASA-CASE-MS-C-18538-1] c 37 N82-26672
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Fluid leak indicator
[NASA-CASE-MS-C-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MS-C-20857-1] c 37 N87-17035
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Tapered, tubular polyester fabric
[NASA-CASE-MS-C-21082-1] c 27 N87-29672
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

Quick connect coupling
[NASA-CASE-MS-C-21539-1] c 37 N91-14610

PISTON ENGINES
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

PISTONS
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Collapsible pistons
[NASA-CASE-MS-C-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Gas-to-hydraulic power converter
[NASA-CASE-MS-C-18794-1] c 44 N83-14693
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

PITCH (INCLINATION)
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

PITCHING MOMENTS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

PIVOTS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

PIXELS
Programmable remapper with single flow architecture
[NASA-CASE-MS-C-21481-1] c 60 N91-13890

PLANAR STRUCTURES
Window defect planar mapping technique
[NASA-CASE-MS-C-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015

PLANE WAVES
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

PLANETARY ATMOSPHERES
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

PLANETARY GRAVITATION
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

PLANETARY LANDING
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

PLANETARY MAPPING
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANETARY ORBITS
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

PLANETARY RADIATION
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANTS (BOTANY)
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

PLASMA ACCELERATION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA ARC WELDING
ARC length control for plasma welding
[NASA-CASE-MS-C-20900-1] c 37 N88-30131

PLASMA CONTROL
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMA DIAGNOSTICS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

PLASMA DYNAMICS
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES

- Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
- Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

PLASMA GENERATORS

- Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
- Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
- Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
- Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS

- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718

PLASMA JETS

- Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

PLASMA LAYERS

- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS

- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES

- Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION

- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
- Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

PLASMA RADIATION

- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
- Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS

- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453

- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
- Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
- Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

PLASMA TEMPERATURE

- Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION

- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)

- Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

PLASMONS

- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

PLASTIC DEFORMATION

- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC TAPES

- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS

- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS

- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS

- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES

- Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445
- Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
- PLATES (STRUCTURAL MEMBERS)
- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477

- Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
- Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-15556

PLATFORMS

- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

PLATING

- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM

- Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
- Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368

PLATINUM ALLOYS

- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS

- Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

PLENUM CHAMBERS

- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY

- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

PLOTTERS

- Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTING

- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES

- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS

- Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

PLUMES

- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

PNEUMATIC CONTROL

- Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT

- High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

POINT SOURCES

- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- X-ray reflection collimator, adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS

- Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

POINTS (MATHEMATICS)

- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS

- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS

- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
- Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARIMETRY

- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
- Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

POLARITY

- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

- Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

POLARIZATION (WAVES)

- System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
- Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION

- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
- Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
- Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

POLARIZED LIGHT

- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

POLARIZED RADIATION

- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS

- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

POLES

- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

POLISHING

- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL

- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

POLLUTION MONITORING

- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

POLYAMIDE RESINS

- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751

- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

POLYBENZIMIDAZOLE

- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

POLYBUTADIENE

- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES

- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

POLYCRYSTALS

- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

POLYESTERS

- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYETHER RESINS

- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Phenox resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYIMIDE RESINS

- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885

- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
- Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
- POLYIMIDES**
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
- Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Novel polyimide compositions based on 4,4': Isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
- Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- POLYISOBUTYLENE**
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- POLYISOPRENES**
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- POLYMER CHEMISTRY**
- Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Synthesis of siloxane-containing epoxy polymers
Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
- Apparatus for testing polymeric materials
Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Process for the preparation of polycarbonaryphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Phenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
- POLYMER MATRIX COMPOSITES**
- Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- POLYMERIC FILMS**
- Processing for producing a sterilized instrument
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[NASA-CASE-XNP-09763] c 14 N71-20461
- Hydraulic casting of liquid polymers
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[NASA-CASE-XNP-07659] c 06 N71-22975
- Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847

- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
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[NASA-CASE-MSC-21366-1] c 54 N89-12206
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[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
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[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496
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[NASA-CASE-MFS-28368-1] c 75 N90-10717
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[NASA-CASE-LAR-13696-1] c 37 N90-20409

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- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
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[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
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[NASA-CASE-NPO-12061-1] c 27 N76-16228
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[NASA-CASE-NPO-10557] c 27 N78-17214
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
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[NASA-CASE-ARC-11060-1] c 27 N79-22300
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[NASA-CASE-LEW-12053-2] c 27 N79-28307
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
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[NASA-CASE-MSC-14903-3] c 27 N80-24438
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
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[NASA-CASE-ARC-11248-1] c 27 N81-17259

- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
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[NASA-CASE-MFS-25000-1] c 25 N81-19242
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[NASA-CASE-NPO-13309-1] c 25 N81-19244
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[NASA-CASE-ARC-11176-1] c 27 N82-18389
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[NASA-CASE-LAR-12705-1] c 25 N82-26396
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[NASA-CASE-LAR-12858-1] c 27 N83-34041
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[NASA-CASE-ARC-11400-1] c 27 N84-14322
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[NASA-CASE-NPO-15210-1] c 25 N84-22709
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[NASA-CASE-LAR-12723-2] c 27 N84-22746
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[NASA-CASE-LAR-12980-1] c 27 N84-22749
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[NASA-CASE-ARC-11370-1] c 27 N84-22750
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[NASA-CASE-ARC-11405-1] c 27 N84-27884
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[NASA-CASE-ARC-11413-1] c 27 N85-21348
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[NASA-CASE-NPO-16103-1] c 27 N85-29043
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[NASA-CASE-ARC-11428-1] c 23 N86-19376
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[NASA-CASE-LAR-12931-2] c 27 N86-21675
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[NASA-CASE-ARC-11421-3] c 24 N86-25416
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[NASA-CASE-LAR-13316-1] c 27 N86-27450
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[NASA-CASE-ARC-11506-2] c 23 N86-32525
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
Ethyne terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
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[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
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[NASA-CASE-LAR-13633-1] c 27 N87-24575
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263

- Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
Some 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Noninvasive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- POLYMERS**
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- POLYMETHYL METHACRYLATE**
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- POLYPHENYL ETHER**
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496

POLYPHENYLS

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496

Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337

POLYQUINOXALINES

Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337

POLYSACCHARIDES

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

POLYTETRAFLUOROETHYLENE

Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404

Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

POLYURETHANE FOAM

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

POLYURETHANE RESINS

Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254

Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076

Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

POLYVINYL ALCOHOL

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

POLYVINYL CHLORIDE

Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

PONDS

Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

PORCELAIN

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

POROSITY

Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371

Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917

Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

POROUS MATERIALS

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046

Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137

Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103

Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108

Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426

Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

POROUS PLATES

Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

PORPHYRINS

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

PORTABLE EQUIPMENT

Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932

Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721

Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654

Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518

One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413

Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420

Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361

System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163

Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299

Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949

Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

PORTABLE LIFE SUPPORT SYSTEMS

Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

PORTS (OPENINGS)

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

POSITION (LOCATION)

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696

Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-13787

Optical joint correlation for real-time tracking
[NASA-CASE-MSC-21509-1] c 74 N91-13997

Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002

Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

POSITION INDICATORS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179

- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

POSITION SENSING

- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

POSITIONING

- Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
- Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
- Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
- Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341
- Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-14000
- Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

POSITIONING DEVICES (MACHINERY)

- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
- Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408

POSITIVE FEEDBACK

- Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

POSITRONS

- Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

POTABLE WATER

- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933

- Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

POTASSIUM SILICATES

- Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS

- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)

- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

POTTING COMPOUNDS

- Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
- Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
- Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)

- Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152

POWDER METALLURGY

- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
- Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
- Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-13503

POWDERED ALUMINUM

- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS

- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
- Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING

- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

POWER CONVERTERS

- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

POWER EFFICIENCY

- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
- Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
- Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

POWER FACTOR CONTROLLERS

- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

POWER GAIN

- Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

POWER LIMITERS

- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES

- Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER REACTORS

- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER SERIES

- Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
- Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA

- Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
- Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES

- Tape recorder Patent
 [NASA-CASE-XGS-08259] c 14 N71-23698
 Current dependent filter inductance
 [NASA-CASE-ERC-10139] c 09 N72-17154
 Power supply for carbon dioxide lasers
 [NASA-CASE-GSC-11222-1] c 16 N73-32391
 High voltage distributor
 [NASA-CASE-GSC-11849-1] c 33 N76-16332
 Method and apparatus for precision control of radiometer
 [NASA-CASE-NPO-15398-1] c 35 N84-22931
POWER SUPPLY CIRCUITS
 Regulated dc to dc converter
 [NASA-CASE-XGS-03429] c 03 N69-21330
 Power control circuit
 [NASA-CASE-XNP-02713] c 10 N69-39888
 Electronic amplifier with power supply switching Patent
 [NASA-CASE-XMS-00945] c 09 N71-10798
 Heat pipe thermionic diode power system Patent
 [NASA-CASE-XMF-05843] c 03 N71-11055
 Pulsed energy power system Patent
 [NASA-CASE-MSC-13112] c 03 N71-11057
 Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
 [NASA-CASE-XGS-04767] c 08 N71-12494
 Microwave power receiving antenna Patent
 [NASA-CASE-MFS-20333] c 09 N71-13486
 Regulated power supply Patent
 [NASA-CASE-XMS-01991] c 09 N71-21449
 Power supply Patent
 [NASA-CASE-XMS-02159] c 10 N71-22961
 Polarity sensitive circuit Patent
 [NASA-CASE-XNP-00952] c 10 N71-23271
 Power supply circuit Patent
 [NASA-CASE-XMS-00913] c 10 N71-23543
 Drive circuit for minimizing power consumption in inductive load Patent
 [NASA-CASE-NPO-10716] c 09 N71-24892
 Unsaturating saturable core transformer Patent
 [NASA-CASE-ERC-10125] c 09 N71-24893
 Voltage dropout sensor Patent
 [NASA-CASE-KSC-10020] c 10 N71-27338
 Maximum power point tracker Patent
 [NASA-CASE-GSC-10376-1] c 14 N71-27407
 High power microwave power divider Patent
 [NASA-CASE-NPO-11031] c 07 N71-33606
 Ripple indicator
 [NASA-CASE-KSC-10162] c 09 N72-11225
 A dc to ac to dc converter having transistor synchronous rectifiers
 [NASA-CASE-GSC-11126-1] c 09 N72-25253
 LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
 [NASA-CASE-MFS-21698-1] c 33 N74-26732
 Integrable power gyrator --- with Z-matrix design using parallel transistors
 [NASA-CASE-MFS-22342-1] c 33 N75-30428
 The dc-to-dc converters employing staggered-phase power switches with two-loop control
 [NASA-CASE-NPO-13512-1] c 33 N77-10428
 Control for nuclear thermionic power source
 [NASA-CASE-NPO-13114-2] c 73 N78-28913
 Closed Loop solar array-ion thruster system with power control circuitry
 [NASA-CASE-LEW-12780-1] c 20 N79-20179
 Three phase power factor controller
 [NASA-CASE-MFS-25535-1] c 33 N81-12330
 Power factor control system for ac induction motors
 [NASA-CASE-MFS-23988-1] c 33 N81-27395
 Triac failure detector
 [NASA-CASE-MFS-25607-1] c 33 N83-34190
 Arc lamp power supply using a voltage multiplier
 [NASA-CASE-LAR-13202-1] c 33 N88-23942
PREBURNERS
 Turbomachinery shaft insert
 [NASA-CASE-MFS-28345-2] c 37 N89-28842
PRECESSION
 Dynamic precession damper for spin stabilized vehicles Patent
 [NASA-CASE-XLA-01989] c 21 N70-34295
PRECIPITATION (CHEMISTRY)
 Production of pure metals
 [NASA-CASE-LEW-10906-1] c 25 N74-30502
 Human serum albumin crystals and method of preparation
 [NASA-CASE-MFS-28234-1] c 52 N90-20616
PRECIPITATORS
 Acoustic agglomeration methods and apparatus
 [NASA-CASE-NPO-15466-1] c 71 N85-22104
 Electronic precipitator control
 [NASA-CASE-LAR-13273-2] c 33 N90-20320

PRECISION

- Precision stepping drive Patent
 [NASA-CASE-MFS-14772] c 15 N71-17692
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114-2] c 15 N71-26148
PREDICTIONS
 Digital phase-lock loop having an estimator and predictor of error
 [NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
 Predictive aging of polymers
 [NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
 Predictive sensor method and apparatus
 [NASA-CASE-SSC-00006-1] c 35 N91-13691
 Acoustic positioning and orientation prediction
 [NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
PREFLIGHT OPERATIONS
 Automatic balancing device Patent
 [NASA-CASE-LAR-10774] c 10 N71-13545
PREFORMS
 Method of preparing fiber reinforced ceramic material
 [NASA-CASE-LEW-14392-1] c 27 N87-28656
 Lightweight piston architecture
 [NASA-CASE-LAR-13926-1] c 37 N90-22042
 Braided composite fasteners and method for producing same
 [NASA-CASE-LAR-14062-1] c 37 N90-27114
PRELAUNCH TESTS
 Parasitic probe antenna Patent
 [NASA-CASE-XKS-09348] c 09 N71-13521
 Electronic checkout system for space vehicles Patent
 [NASA-CASE-XKS-08012-2] c 31 N71-15566
PREPOLYMERS
 Novel polycarboxylic prepolymeric materials and polymers thereof Patent
 [NASA-CASE-NPO-10596] c 06 N71-25929
 Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
 [NASA-CASE-NPO-13137-1] c 27 N80-32514
 Prepolymer dianhydrides
 [NASA-CASE-NPO-13899-1] c 27 N80-32515
 Structural wood panels with improved fire resistance
 [NASA-CASE-ARC-11174-1] c 24 N81-13999
 Method for forming pyrrone molding powders and products of said method
 [NASA-CASE-LAR-10423-1] c 23 N82-29358
 Elastomer toughened polyimide adhesives
 [NASA-CASE-LAR-12775-1] c 27 N83-28240
 Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
 [NASA-CASE-LAR-12838-1] c 27 N83-34040
PREPREGS
 Tackifier for addition polyimides containing monoethylphthalate
 [NASA-CASE-LAR-12642-1] c 27 N81-29229
 Continuous fiber thermoplastic prepreg
 [NASA-CASE-LAR-14459-1] c 24 N91-15334
PRESSURE
 Strain gage mounting assembly
 [NASA-CASE-NPO-13170-1] c 35 N76-14430
PRESSURE CHAMBERS
 Electric arc driven wind tunnel Patent
 [NASA-CASE-XMF-00411] c 11 N70-36913
 Whole body measurement systems --- for weightlessness simulation
 [NASA-CASE-MSC-13972-1] c 52 N74-10975
 Accumulator
 [NASA-CASE-MFS-19287-1] c 34 N77-30399
 Safety shield for vacuum/pressure chamber viewing port
 [NASA-CASE-GSC-12513-1] c 31 N81-19343
 Weightlessness simulation system and process
 [NASA-CASE-ARC-11646-1] c 14 N87-25344
PRESSURE DISTRIBUTION
 Instrument for use in performing a controlled Valsalva maneuver Patent
 [NASA-CASE-XMS-01615] c 05 N70-41329
 Prevention of pressure build-up in electrochemical cells Patent
 [NASA-CASE-XGS-01419] c 03 N70-41864
 Accumulator
 [NASA-CASE-MFS-19287-1] c 34 N77-30399
 Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
 [NASA-CASE-MSC-18134-1] c 37 N81-15363
 Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
 [NASA-CASE-LAR-12315-1] c 37 N82-24490
 Ultrasonic transducer with Gaussian radial pressure distribution
 [NASA-CASE-LAR-12967-1] c 35 N84-22932

PRESSURE DRAG

- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
 [NASA-CASE-LAR-13511-1] c 05 N88-23765
PRESSURE DROP
 Leak detector
 [NASA-CASE-MFS-21761-1] c 35 N75-15931
PRESSURE EFFECTS
 System for stabilizing cable phase delay utilizing a coaxial cable under pressure
 [NASA-CASE-NPO-13138-1] c 33 N74-17927
 Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
 [NASA-CASE-LAR-10782-2] c 31 N75-13111
 Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
 [NASA-CASE-MFS-19193-1] c 37 N75-19686
 Fluid pressure balanced seal
 [NASA-CASE-XGS-01286-1] c 37 N79-33469
 Real time pressure signal system for a rotary engine
 [NASA-CASE-LEW-13622-1] c 07 N84-22559
 Optical pressure sealing coupling apparatus
 [NASA-CASE-MFS-29348-1] c 74 N89-25689
 Ballast system for maintaining constant pressure in a glove box
 [NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
 Device for applying constant pressure to a surface
 [NASA-CASE-GSC-13230-1] c 37 N91-13734
 Thermal power transfer system using applied potential difference to sustain operating pressure difference
 [NASA-CASE-NPO-18034-1-CU] c 44 N91-13796
PRESSURE GAGES
 Differential pressure cell Patent
 [NASA-CASE-XAC-00042] c 14 N70-34816
 Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
 [NASA-CASE-XMS-06061] c 05 N71-23317
 Apparatus for testing a pressure responsive instrument Patent
 [NASA-CASE-XMF-04134] c 14 N71-23755
 Device for measuring pressure Patent
 [NASA-CASE-XAC-04458] c 14 N71-24232
 Ultrahigh vacuum gauge having two collector electrodes
 [NASA-CASE-LAR-02743] c 14 N73-32324
 Gas ion laser construction for electrically isolating the pressure gauge thereof
 [NASA-CASE-MFS-22597] c 36 N78-17366
PRESSURE GRADIENTS
 Positive displacement flowmeter Patent
 [NASA-CASE-XMF-02822] c 14 N70-41994
 Dual laser optical system and method for studying fluid flow
 [NASA-CASE-MFS-25315-1] c 36 N83-29680
PRESSURE HEADS
 Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
 [NASA-CASE-NPO-15227-1] c 37 N81-33482
PRESSURE MEASUREMENT
 Inertia diaphragm pressure transducer Patent
 [NASA-CASE-XAC-02981] c 14 N71-21072
 Linear differential pressure sensor Patent
 [NASA-CASE-XMF-01974] c 14 N71-22752
 Device for measuring pressure Patent
 [NASA-CASE-XAC-04458] c 14 N71-24232
 Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
 [NASA-CASE-XER-11203] c 14 N71-28994
 Sensing probe
 [NASA-CASE-LEW-10281-1] c 14 N72-17327
 Gauge calibration by diffusion
 [NASA-CASE-XGS-07752] c 14 N73-30390
 Apparatus for absolute pressure measurement
 [NASA-CASE-LAR-10000] c 14 N73-30394
 Wind tunnel model and method
 [NASA-CASE-LAR-10812-1] c 09 N74-17955
 Indicated mean-effective pressure instrument
 [NASA-CASE-LEW-12661-1] c 35 N79-14345
 High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
 [NASA-CASE-LAR-12375-1] c 32 N79-24203
 Static pressure orifice system testing method and apparatus
 [NASA-CASE-LAR-12269-1] c 35 N80-18358
 Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
 [NASA-CASE-LAR-12261-1] c 02 N80-20224
 Non-invasive method and apparatus for measuring pressure within a pliable vessel
 [NASA-CASE-ARC-11264-2] c 52 N83-29991
 Electronic scanning pressure measuring system and transducer package
 [NASA-CASE-ARC-11361-1] c 35 N84-22934

Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658

Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-13683

Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874

PRESSURE PULSES

Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686

PRESSURE REDUCTION

Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316

Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583

Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-13683

PRESSURE REGULATORS

Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260

High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050

Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487

Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

PRESSURE SENSORS

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824

Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681

Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072

Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438

Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418

Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487

System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132

Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390

Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896

Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407

Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359

Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874

PRESSURE SUITS

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546

Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

PRESSURE SWITCHES

Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370

Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

PRESSURE VESSELS

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910

Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661

Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874

Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

PRESSURE WELDING

Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

PRESSURIZING

Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

PRESTRESSING

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[NASA-CASE-XNP-02888] c 18 N71-21088

Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

PRETREATMENT

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

PRINTED CIRCUITS

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431

Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705

Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604

Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243

Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567

Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

PRINTING

Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468

Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

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Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

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Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463

Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848

Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

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[NASA-CASE-NPO-11337-1] c 74 N81-19896

Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

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Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222

Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478

System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

PROCESS CONTROL (INDUSTRY)

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350

Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351

Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

PROCESSING

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

PRODUCT DEVELOPMENT

Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329

Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330

Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364

Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

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[NASA-CASE-XMS-02532] c 15 N70-41808

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713

Multilayer porous ionizer Patent
[NASA-CASE-NXP-04338] c 17 N71-23046

Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320

Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371

Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472

Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

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Self-obturator, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PROJECTION

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

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Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTORS

Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

PROPAGATION MODES

Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

PROPAGATION VELOCITY

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

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Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123

PROPELLANT ACTUATED INSTRUMENTS

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

PROPELLANT ADDITIVES

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

PROPELLANT BINDERS

Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

PROPELLANT CASTING

Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213

Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

PROPELLANT CHEMISTRY

Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

PROPELLANT COMBUSTION

Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

PROPELLANT DECOMPOSITION

Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

PROPELLANT GRAINS

Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

PROPELLANT TANKS

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233

Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779

Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185

Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

PROPELLANT TRANSFER

Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492

Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020

Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367

Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661

Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

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Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

PROPELLER BLADES

Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

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Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16628

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PROPELLERS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

PROPORTIONAL CONTROL

- Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954

PROPULSION SYSTEM CONFIGURATIONS

- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
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[NASA-CASE-LAR-13155-1] c 05 N86-19310
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-13657

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- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

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- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

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- Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
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[NASA-CASE-KSC-11069-1] c 52 N79-26772
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

PROTECTION

- Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

PROTECTIVE CLOTHING

- Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730

- Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206

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[NASA-CASE-XNP-06508] c 18 N69-39895
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Fused silicate coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238

- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
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[NASA-CASE-LEW-13174-1] c 34 N83-27144
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412

PROTECTORS

- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

PROTEIN CRYSTAL GROWTH

- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

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- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

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- Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

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- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

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- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

PSEUDOMONAS

- Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

PSEUDONOISE

- Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PULMONARY CIRCULATION

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885

Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519

Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395

Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

PULSE AMPLITUDE MODULATION

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208

Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149

Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE COMMUNICATION

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

PULSE DURATION

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

PULSE DURATION MODULATION

Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390

Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249

Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

Flop/flop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395

Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479

Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

PULSED LASERS

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PULSED RADIATION

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

PULSES

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408

PULTRUSION

Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

PUMP SEALS

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS

Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042

Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028

Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465

Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738

Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958

Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

PUNCHED CARDS

File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES

- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- PURGING**
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- PURIFICATION**
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of the thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- PURITY**
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- PUSH-PULL AMPLIFIERS**
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- PUSHING**
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- PYLONS**
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
- PYRIDINES**
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
- PYROELECTRICITY**
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- PYROGEN**
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- PYROLYSIS**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- PYROLYTIC GRAPHITE**
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
- PYROLYTIC MATERIALS**
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
- PYROMETERS**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- PYROTECHNICS**
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
- PYRRONES (TRADEMARK)**
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Q**
- Q FACTORS**
High Q quasi-optical tunable resonator
[NASA-CASE-NPO-17919-1-CU] c 33 N91-15489
- Q SWITCHED LASERS**
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- Q VALUES**
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- QUADRANTS**
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- QUADRATIC PROGRAMMING**
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- QUADRATURES**
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
- QUALITATIVE ANALYSIS**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- QUANTITATIVE ANALYSIS**
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161

- Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- QUANTUM THEORY**
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- QUANTUM WELLS**
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
- QUARTZ**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- QUARTZ LAMPS**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- QUINOXALINES**
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

R

RACKS (FRAMES)

- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- RADAR ANTENNAS**
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- RADAR ATTENUATION**
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
- RADAR BEACONS**
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- RADAR BEAMS**
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
- RADAR CROSS SECTIONS**
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- RADAR DATA**
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- RADAR DETECTION**
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR ECHOES

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR IMAGERY

Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14554-1] c 32 N82-12297
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

RADAR MEASUREMENT

Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370

RADAR RANGE

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

RADAR RECEIVERS

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

RADAR RECEPTION

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

RADAR REFLECTORS

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

RADAR TARGETS

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

RADAR TRACKING

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

RADAR TRANSMITTERS

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

RADIAL DISTRIBUTION

Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

RADIAL FLOW

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459

RADIANCE

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

RADIANT COOLING

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903

Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

RADIANT FLUX DENSITY

High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

RADIANT HEATING

High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

RADIATION COUNTERS

Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430

Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317

Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949

Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE

Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062

RADIATION MEASURING INSTRUMENTS

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATION DETECTORS

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401

Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141

Radiant source tracker, independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910

Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551

Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

RADIATION DISTRIBUTION

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

RADIATION DOSAGE

Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION EFFECTS

Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892

RADIATION HARDENING

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

RADIATION HAZARDS

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION MEASUREMENT

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

RADIATION MEASURING INSTRUMENTS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901

- Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
- Cloud cover sensor
[NASA-CASE-NPO-14938-1] c 47 N83-32232
- RADIATION MEDICINE**
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- RADIATION PROTECTION**
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
- Sun shield
[NASA-CASE-MS-C-20162-1] c 37 N87-17036
- Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
- Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
- RADIATION SHIELDING**
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- Sealed cabinetry Patent
[NASA-CASE-MS-C-12168-1] c 09 N71-18600
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- RADIATION SOURCES**
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
- Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
- Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
- Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
- RADIATION SPECTRA**
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- RADIATION THERAPY**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- RADIATION TOLERANCE**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- RADIATIVE HEAT TRANSFER**
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- RADIATORS**
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
- RADIO ANTENNAS**
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
- VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
- Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- RADIO ASTRONOMY**
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- RADIO BEACONS**
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
- Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374
- RADIO COMMUNICATION**
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- RADIO CONTROL**
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- RADIO EQUIPMENT**
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- RADIO FREQUENCIES**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
- Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
- RADIO FREQUENCY DISCHARGE**
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
- RADIO FREQUENCY HEATING**
Gyrotron transmitting tube
[NASA-CASE-NPO-13429-1] c 33 N83-31952
- RADIO FREQUENCY INTERFERENCE**
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
- System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
- Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
- RADIO FREQUENCY SHIELDING**
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
- Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
- RADIO INTERFEROMETERS**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- RADIO PROBING**
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
- RADIO RECEIVERS**
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
- Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
- RADIO RELAY SYSTEMS**
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
- RADIO SIGNALS**
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- RADIO SOURCES (ASTRONOMY)**
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
- RADIO STARS**
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- RADIO TELEMETRY**
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
- RADIO TELESCOPES**
Antenna grout replacement system
[NASA-CASE-NPO-15502-1] c 27 N83-34043
- RADIO TRANSMITTERS**
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO WAVES
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

RADIOACTIVE ISOTOPIES
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIOBIOLOGY
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681

RADIOGRAPHY
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

RADIOLOGY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

RADIOLYSIS
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

RADIOMETERS
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

RADIOSONDES
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

RAIN
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

RAMJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

RAMPS (STRUCTURES)
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

RANDOM ACCESS MEMORY
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

RANDOM LOADS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

RANDOM NOISE

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

RANDOM NUMBERS
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE AND RANGE RATE TRACKING
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

RANGE FINDERS
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

RANGEFINDING
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HON-10595-1] c 27 N82-29455

RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RASTER SCANNING
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

RATES (PER TIME)
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RC CIRCUITS
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION BONDING
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

REACTION CONTROL
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION PRODUCTS
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HON-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HON-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READOUT
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

REAL TIME OPERATION
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598

Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

Optical joint correlation for real-time tracking
[NASA-CASE-MSC-21509-1] c 74 N91-13997

Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N91-15469

REATTACHED FLOW
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

REBREATHING
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

RECEIVERS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012

Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113

Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427

Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270

Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

RECIPROCATION
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

RECOMBINATION REACTIONS
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874

Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

RECONSTRUCTION

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

RECORDING HEADS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

RECORDING INSTRUMENTS
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773

Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-MSC-06061] c 05 N71-23317

Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224

Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

RECOVERABILITY
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

RECOVERABLE LAUNCH VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

RECOVERABLE SPACECRAFT
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

RECOVERY PARACHUTES
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009

Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-15138

RECTANGULAR PANELS
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040

Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

RECTIFIERS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191

Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253

Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

RECTUM
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

REDOX CELLS
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

REDUCED GRAVITY
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988

Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000

Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028

Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557

Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

REDUCTION (CHEMISTRY)
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530

Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

REDUNDANCY
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

REDUNDANT COMPONENTS
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101

Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

REELS
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495

Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

REENTRY COMMUNICATION
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331

Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372

Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

REENTRY SHIELDING
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834

Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062

Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339

Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

REENTRY TRAJECTORIES
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

REENTRY VEHICLES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242

Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257

Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

REFERENCE SYSTEMS

Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

REFINING

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

REFLECTANCE

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365

Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408

Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519

REFLECTED WAVES

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

REFLECTING TELESCOPES

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

REFLECTION

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

REFLECTOMETERS

Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample
Patent
[NASA-CASE-XGS-05291] c 23 N71-16341

Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

REFLECTOR ANTENNAS

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

REFLECTORS

Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102

Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526

Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579

Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493

Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843

Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1CU] c 24 N90-26880

REFRACTIVITY

The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185

Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N87-24874

Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1CU] c 74 N89-14077

REFRACTORY COATINGS

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

REFRACTORY MATERIALS

High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820

High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213

Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339

Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456

Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566

REFRACTORY METALS

Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046

Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536

Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748

One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1CU] c 27 N91-14489

REFRIGERATING

Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

REFRIGERATING MACHINERY

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190

Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590

Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026

Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1CU] c 31 N88-14223

REFRIGERATORS

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284

Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1CU] c 31 N87-21159

Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1CU] c 31 N88-23917

Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1CU] c 34 N88-23946

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1CU] c 31 N89-12785

Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

REFUELING

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

REGENERATION (ENGINEERING)

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

REGENERATION (PHYSIOLOGY)

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MS-C-21629-1] c 54 N89-29027

REGENERATIVE COOLING

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

REGENERATIVE FUEL CELLS

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

REGENERATORS

Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

REGISTERS (COMPUTERS)

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800

REINFORCED PLASTICS

Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125

REINFORCEMENT (STRUCTURES)

Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370

REINFORCEMENT RINGS

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

REINFORCING FIBERS

Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198

Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100

Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296

High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

RELAXATION OSCILLATORS

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

RELAY SATELLITES

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

RELEASING

Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MS-C-20080-1] c 37 N85-30334
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Preloadable vector sensitive latch
[NASA-CASE-MS-C-20910-1] c 37 N87-25582
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Double swivel toggle release
[NASA-CASE-MS-C-21436-1] c 37 N90-21390

RELIABILITY ANALYSIS

Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

RELIABILITY ENGINEERING

Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MS-C-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

RELIEF MAPS

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-13711

RELIEF VALVES

Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

REMOTE CONTROL

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929

Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MS-C-20979-1] c 37 N87-22985
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved docking alignment system
[NASA-CASE-MS-C-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MS-C-21095-1] c 37 N89-12866
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

REMOTE HANDLING

Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398

REMOTE MANIPULATOR SYSTEM

Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MS-C-20979-1] c 37 N87-22985
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-13482

REMOTE SENSING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- REMOTE SENSORS**
- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- REMOTELY PILOTED VEHICLES**
- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
- REMOVAL**
- Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- REPEATERS**
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
- REPLACING**
- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- RESCUE OPERATIONS**
- Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
- Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
- Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- RESEARCH AIRCRAFT**
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- RESEARCH AND DEVELOPMENT**
- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- RESEARCH VEHICLES**
- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- RESERVOIRS**
- Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
- RESIDUAL STRESS**
- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
- RESILIENCE**
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- RESIN BONDING**
- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- RESIN MATRIX COMPOSITES**
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- Semipermeating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
- Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
- RESINS**
- Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
- RESISTANCE**
- Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
- Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- RESISTANCE HEATING**
- Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
- RESISTORS**
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- RESOLUTION**
- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Spectroscopy equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975
- RESOLVERS**
- Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- RESONANCE**
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- RESONANT FREQUENCIES**
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
- Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- RESONANT TUNNELING**
- High Q quasi-optical tunable resonator
[NASA-CASE-NPO-17919-1-CU] c 33 N91-15489
- RESONANT VIBRATION**
- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- RESONATORS**
- High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- High Q quasi-optical tunable resonator
[NASA-CASE-NPO-17919-1-CU] c 33 N91-15489
- RESOURCE ALLOCATION**
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

RESPIRATION

- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- RESPIRATORS**
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
- RESPIRATORY RATE**
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
- RESPIROMETERS**
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
- RESPONSE TIME (COMPUTERS)**
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976
- RESPONSES**
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
- RESTARTABLE ROCKET ENGINES**
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- RESUSCITATION**
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
- RETAINING**
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
- RETARDERS (DEVICES)**
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- RETARDING**
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- RETICLES**
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
- RETINA**
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865
- RETINAL IMAGES**
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- RETRACTABLE EQUIPMENT**
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- RETROFIRING**
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Discrete local attitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- RETROREFLECTION**
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
- RETROREFLECTORS**
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
- RETROCKET ENGINES**
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
- RETURN TO EARTH SPACE FLIGHT**
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
- REUSABLE HEAT SHIELDING**
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- REUSABLE ROCKET ENGINES**
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
- REUSABLE SPACECRAFT**
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- REUSE**
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
- REVERSE OSMOSIS**
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- REVERSED FLOW**
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- REYNOLDS NUMBER**
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
- REYNOLDS STRESS**
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- RHENIUM**
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- RHEOMETERS**
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
- RHOMBODS**
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- RIBBONS**
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798

- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898
- RIBLETS**
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
- RIBOFLAVIN**
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- RIBS (SUPPORTS)**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- RICE**
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096
- RIDING QUALITY**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- RIGID ROTORS**
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- RIGID STRUCTURES**
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
- RIGID WINGS**
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
- RIMS**
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- RING CURRENTS**
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- RING STRUCTURES**
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- RING WINGS**
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- RIPPLES**
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOT ARMS

Direct drive robotic hand
[NASA-CASE-NPO-17817-1-CU] c 37 N90-26339
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-13735
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-15556
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388

ROBOT CONTROL

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615

ROBOT DYNAMICS

Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-21476-1] c 37 N90-17137
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-13735
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388

ROBOTICS

Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Gripping device
[NASA-CASE-MS-21365-1] c 37 N90-20408
Power saw
[NASA-CASE-MS-21469-1] c 37 N90-26340
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-13735
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-15556
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

ROBOTS

Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-21476-1] c 37 N90-17137
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388

ROBUSTNESS (MATHEMATICS)

Direct drive robotic hand
[NASA-CASE-NPO-17817-1-CU] c 37 N90-26339

ROCKET ENGINE CASES

Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

ROCKET ENGINE CONTROL

Fluid thrust control system — for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

ROCKET ENGINE DESIGN

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

ROCKET ENGINES

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
Emergency egress fixed rocket package
[NASA-CASE-MS-21332-1] c 03 N91-15142

ROCKET EXHAUST

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Hybrid plume plasma rocket
[NASA-CASE-MS-20476-2] c 20 N89-25279

ROCKET FIRING

Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

ROCKET FLIGHT

Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

ROCKET LAUNCHING

Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

ROCKET LININGS

Heat exchanger and method of making — rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

ROCKET NOZZLES

Gimballed, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Nozzle fabrication technique
[NASA-CASE-MS-21299-1] c 20 N88-24684
Hybrid plume plasma rocket
[NASA-CASE-MS-20476-2] c 20 N89-25279

ROCKET OXIDIZERS

Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

ROCKET PROPELLANTS

Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

ROCKET TEST FACILITIES

High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

ROCKET THRUST

Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574

- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- ROCKET VEHICLES**
- Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
- Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
- Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- ROCKET-BORNE INSTRUMENTS**
- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- ROCKETS**
- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- ROCKS**
- Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- RODS**
- Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
- ROLL**
- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
- ROLLER BEARINGS**
- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
- Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
- Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
- ROLLERS**
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
- Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
- ROLLING**
- Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
- ROLLING CONTACT LOADS**
- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
- ROLLING MOMENTS**
- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- ROOM TEMPERATURE**
- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- ROTARY GYROSCOPES**
- Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- ROTARY STABILITY**
- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- ROTARY WING AIRCRAFT**
- Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
- ROTARY WINGS**
- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- ROTATING BODIES**
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
- Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
- Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- ROTATING CYLINDERS**
- Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- ROTATING DISKS**
- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
- ROTATING ELECTRICAL MACHINES**
- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
- ROTATING ENVIRONMENTS**
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- ROTATING GENERATORS**
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- ROTATING MIRRORS**
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
- ROTATING SHAFTS**
- Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
- Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
- Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
- Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
- Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
- ROTATION**
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261

Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

ROTOR AERODYNAMICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154

Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

RUBBER
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

RUBBER COATINGS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS

Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS

Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621

Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUPTURING

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

S**SABOT PROJECTILES**

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335

Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706

Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

SAFETY FACTORS

Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527

SAHA EQUATIONS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395

Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SAMPLES

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435

Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068

Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069

Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684

High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771

Biofilm monitoring coupon system
[NASA-CASE-MSC-21585-1] c 51 N91-13857

High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340

SANDWICH STRUCTURES

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

SAPPHIRE

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200

Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

SATELLITE ATTITUDE CONTROL

Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089

Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855

Satellite despun device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624

Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644

Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426

Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

SATELLITE COMMUNICATION

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

SATELLITE CONTROL

Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

SATELLITE DESIGN

Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

SATELLITE INSTRUMENTS

Reaction wheel scanner Patent
[NASA-CASE-XGS-06269] c 14 N71-21082

SATELLITE NETWORKS

Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

SATELLITE OBSERVATION

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

SATELLITE ORBITS

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

SATELLITE ORIENTATION

Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

SATELLITE PERTURBATION

Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SATELLITE POWER TRANSMISSION

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

SATELLITE ROTATION

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016

Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

SATELLITE TELEVISION

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

SATELLITE TRACKING

Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

SATELLITE TRANSMISSION

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

SATELLITE-BORNE INSTRUMENTS

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SATELLITE-BORNE PHOTOGRAPHY

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SATURABLE REACTORS

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

SATURATION

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

SAWS

Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

SAWTOOTH WAVEFORMS

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

SCANNERS

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804

Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172

Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491

Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

SCANNING

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

SCATTERING CROSS SECTIONS

Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360

SCENE ANALYSIS

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

SCHLIEREN PHOTOGRAPHY

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

SCHMIDT CAMERAS

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

SCHMIDT TELESCOPES

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

SCHOOLS

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

SCHOTTKY DIODES

High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526

Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467

Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525

Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329

SCOOPS

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

SCORING

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

SCRAMBLING (COMMUNICATION)

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SCREWS

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

SCRUBBERS

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

SEA ICE

A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

- SEA STATES**
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- SEA SURFACE TEMPERATURE**
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SEALERS**
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- SEALING**
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
- SEALS (STOPPERS)**
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
- SEAMS (JOINTS)**
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
- SEAT BELTS**
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
- SEATS**
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- SECONDARY EMISSION**
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- SECONDARY FLOW**
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
- SECTORS**
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
- SECURITY**
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- SEDIMENTS**
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- SEGMENTS**
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
- SEISMIC WAVES**
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
- SEISMOGRAPHS**
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- SELECTORS**
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- SELF ADAPTIVE CONTROL SYSTEMS**
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
- SELF ALIGNMENT**
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- SELF ERECTING DEVICES**
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
- SELF FOCUSING**
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- SELF LUBRICATING MATERIALS**
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- SELF LUBRICATION**
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- SELF MANEUVERING UNITS**
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- SELF PROPAGATION**
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
- SELF SEALING**
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- SELF TESTS**
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
- SEMICONDUCTOR DEVICES**
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560

Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892

Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899

Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992

Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820

Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199

Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447

Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679

Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446

Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

SEMICONDUCTOR DIODES

Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

SEMICONDUCTOR JUNCTIONS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532

High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764

Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

SEMICONDUCTOR LASERS

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

SEMICONDUCTORS (MATERIALS)

Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MS-C-12259-1] c 07 N70-12616

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445

Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192

Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760

Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882

Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076

SENSITIVITY

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

SENSITOMETRY

Condition sensor system and method
[NASA-CASE-MS-C-14805-1] c 54 N78-32720

SENSORS

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MS-C-14180-1] c 52 N76-14757

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

SENSORY PERCEPTION

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SEPARATED FLOW

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294

Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016

Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364

Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

SEPARATORS

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968

Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079

Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023

Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492

Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608

Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390

Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-12628

Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641

Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642

Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
- Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
- SEQUENCING**
- Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
- MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
- Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
- Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- SEQUENTIAL ANALYSIS**
- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
- Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
- SEQUENTIAL COMPUTERS**
- Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
- SEQUENTIAL CONTROL**
- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
- SERUMS**
- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
- SERVICE LIFE**
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- SERVOAMPLIFIERS**
- Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- SERVOCONTROL**
- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
- Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
- Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- SERVOMECHANISMS**
- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- SERVOMOTORS**
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- SEWAGE TREATMENT**
- Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
- Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- SHADES**
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- SHAFTS (MACHINE ELEMENTS)**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
- Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
- Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342
- Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
- SHAKERS**
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- SHALE OIL**
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- SHALES**
- Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
- Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- SHAPE CONTROL**
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- SHAPE MEMORY ALLOYS**
- Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- SHAPED CHARGES**
- Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
- Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- SHAPERS**
- Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
- SHAPES**
- Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
- SHARKS**
- Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
- SHARPNESS**
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- SHEAR CREEP**
- Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- SHEAR FLOW**
- Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- SHEAR PROPERTIES**
- Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
- SHEAR STRESS**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410

Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

SHEARING

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES

Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

SHIFT REGISTERS

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHIP HULLS

Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

SHOCK ABSORBERS

Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092

Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

SHOCK LOADS

Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

SHOES

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

SHOT PEENING

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERS

Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

SHROUDED NOZZLES

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

SHROUDS

Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abrasible gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHUTTERS

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SIDE INLETS

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDEBANDS

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

SIDLOBE REDUCTION

Dual mode horn antenna Patent
[NASA-CASE-NPO-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

SIGNAL ANALYZERS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SIGNAL DETECTION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392

- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-18461-1] c 33 N79-11313
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-13596
- Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
- SIGNAL DETECTORS**
- Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- SIGNAL DISTORTION**
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- SIGNAL ENCODING**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
- SIGNAL GENERATORS**
- Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
- System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
- Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
- Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- SIGNAL MEASUREMENT**
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- SIGNAL MIXING**
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- SIGNAL PROCESSING**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
- Phase multiplexing electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
- Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
- Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
- Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
- System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-13596
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

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Radar ranging receiver Patent
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Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Ferroluic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

SIGNAL REFLECTION

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

SIGNAL STABILIZATION

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

SIGNAL TRANSMISSION

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

SIGNATURE ANALYSIS

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SILANES

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

SILICA GEL

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

SILICA GLASS

Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

SILICATES

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SILICIDES

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

SILICON

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920

- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898
- SILICON ALLOYS**
- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
- SILICON CARBIDES**
- A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MS-C-18832-1] c 27 N83-18908
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- SILICON COMPOUNDS**
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Polymerizable disilanol having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
- SILICON CONTROLLED RECTIFIERS**
- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
- SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- SILICON DIOXIDE**
- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
- Two-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-1] c 27 N76-22377
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MS-C-18741-1] c 27 N82-29456
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- SILICON FILMS**
- A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- SILICON JUNCTIONS**
- Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
- SILICON NITRIDES**
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- SILICON OXIDES**
- Three-component ceramic coating for silica insulation
[NASA-CASE-MS-C-14270-2] c 27 N76-23426
- SILICON POLYMERS**
- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
- SILICON RADIATION DETECTORS**
- Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- SILICON TRANSISTORS**
- Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SILICON RESINS**
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- SILICONES**
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SILICONIZING**
- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- SILOXANES**
- Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
- Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
- Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- SILVER**
- Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- SILVER ALLOYS**
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
- SILVER CHLORIDES**
- Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
- SILVER COMPOUNDS**
- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MS-C-10960-1] c 03 N71-24718
- Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-13503
- SILVER ZINC BATTERIES**
- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- SIMD (COMPUTERS)**
- Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
- SIMULATION**
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803
- Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
- SIMULATORS**
- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
- Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- Weightlessness simulation system and process
[NASA-CASE-NPO-11646-1] c 14 N87-25344
- SIMULTANEOUS EQUATIONS**
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- SINE SERIES**
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
- SINE WAVES**
- Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
- Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- SINGLE CRYSTALS**
- Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
- Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760

Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862

Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

SINTERING

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502

Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152

SIS (SUPERCONDUCTORS)

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

SIZE (DIMENSIONS)

Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

SIZE DETERMINATION

Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282

Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

SIZE SEPARATION

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765

SIZING (SHAPING)

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650

SIZING SCREENS

Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966

Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

SKEWNESS

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

SKID LANDINGS

Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

SKIN (ANATOMY)

Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

SKIN (STRUCTURAL MEMBER)

Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

SKIN FRICTION

Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949

Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117

Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

SKIN TEMPERATURE (BIOLOGY)

Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780

SKIN TEMPERATURE (NON-BIOLOGICAL)

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

SKIRTS

Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

SKY BRIGHTNESS

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

SLEEP

EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

SLEEVES

Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877

System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

SLENDER BODIES

A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

SLICING

Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

SLIDING

Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

SLIDING CONTACT

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734

Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049

Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

SLIDING FRICTION

Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

SLIP CASTING

Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

SLITS

Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620

Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

SLOPES

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

SLOT ANTENNAS

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SLOTS

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

SLUDGE

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

SLURRIES

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

SLURRY PROPELLANTS

Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

SMOKE

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656

Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

SODIUM CHLORIDES

Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128

Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

SODIUM VAPOR

Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

SOFT LANDING

Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861

Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845

Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

SOFT LANDING SPACECRAFT

Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

SOIL MECHANICS

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

SOIL MOISTURE

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

SOIL SCIENCE

Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

SOILS

Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483

Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362

Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

SOL-GEL PROCESSES

Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SOLAR ACTIVITY

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

SOLAR ARRAYS

Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053

Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
- SOLAR CELLS**
- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
- Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-13803
- SOLAR COLLECTORS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

SOLAR ELECTRIC PROPULSION

- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- SOLAR ENERGY**
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- SOLAR ENERGY ABSORBERS**
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- SOLAR ENERGY CONVERSION**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- SOLAR FLUX DENSITY**
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- SOLAR FURNACES**
- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

SOLAR GENERATORS

- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- SOLAR GRAVITATION**
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- SOLAR HEATING**
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- SOLAR OBSERVATORIES**
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- SOLAR PONDS (HEAT STORAGE)**
- Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- SOLAR POSITION**
- Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- SOLAR POWERED AIRCRAFT**
- Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- SOLAR RADIATION**
- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- SOLAR RADIATION SHIELDING**
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- SOLAR RADIO EMISSION**
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- SOLAR REFLECTORS**
- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
- Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432

- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- SOLAR SAILS**
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- SOLAR SENSORS**
- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-NXP-04180] c 07 N69-39736
- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- SOLAR SIMULATORS**
- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- SOLAR-PUMPED LASERS**
- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- SOLDERED JOINTS**
- Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- SOLDERING**
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- SOLDERS**
- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
- SOLENOID VALVES**
- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
- Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
- Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- SOLENOIDS**
- Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
- Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- SOLID CRYOGEN COOLING**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SOLID ELECTRODES**
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- SOLID ELECTROLYTES**
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
- SOLID LUBRICANTS**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- SOLID PHASES**
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- SOLID PROPELLANT IGNITION**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- SOLID PROPELLANT ROCKET ENGINES**
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHO-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- SOLID PROPELLANTS**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- SOLID ROCKET BINDERS**
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID ROCKET PROPELLANTS**
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID STATE**
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- SOLID STATE DEVICES**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10089] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13084-1] c 33 N79-11314
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
- SOLID STATE LASERS**
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
- SOLID SURFACES**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- SOLID WASTES**
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
- SOLID-SOLID INTERFACES**
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- SOLIDIFICATION**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
- SOLIDIFIED GASES**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SOLIDS FLOW**
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- SOLUBILITY**
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684
- SOLUTES**
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860
- SOLUTIONS**
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- SOLVENT EXTRACTION**
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- SOLVENTS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
Acetylene terminated aspartamides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
- SONAR**
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SONIC BOOMS

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232

SORBATES

Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

SORBENTS

Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

SORET COEFFICIENT

Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187

SORPTION

Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

SOUND FIELDS

Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

SOUND GENERATORS

Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

SOUND LOCALIZATION

Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

SOUND PRESSURE

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

SOUND PROPAGATION

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710

SOUND RANGING

Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SOUND TRANSDUCERS

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

SOUND TRANSMISSION

Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710

SOUND WAVES

Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808

SOUNDING ROCKETS

Altitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

SPACE CAPSULES

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

SPACE CHARGE

Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314

SPACE COMMUNICATION

Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

SPACE DEBRIS

Semi-active orbital debris sweeper
[NASA-CASE-MS-C-21534-1] c 18 N90-26860

SPACE ENVIRONMENT SIMULATION

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

SPACE ERECTABLE STRUCTURES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214

Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Bi-stem gripping apparatus
[NASA-CASE-MFS-23185-1] c 37 N88-23979
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544

SPACE EXPLORATION

Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

SPACE FLIGHT

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

SPACE FLIGHT FEEDING

Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

SPACE INDUSTRIALIZATION

Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108

SPACE MAINTENANCE

Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

SPACE MANUFACTURING

Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

SPACE MISSIONS

Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

SPACE NAVIGATION

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

SPACE ORIENTATION

Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

SPACE PLATFORMS

Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

SPACE PROBES

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACE PROCESSING

Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557

SPACE RENDEZVOUS

Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACE SHUTTLE BOOSTERS

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACE SHUTTLE ORBITERS

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

SPACE SHUTTLE PAYLOADS

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

SPACE SHUTTLES

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142

SPACE SIMULATORS

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

SPACE STATION STRUCTURES

Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N90-26859
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

SPACE STATIONS

Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

SPACE STORAGE

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPACE SUITS

Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194

Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N72-20097
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N72-25125
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

SPACE TOOLS

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

SPACE TRANSPORTATION SYSTEM

Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SPACE VEHICLE CHECKOUT PROGRAM

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

SPACEBORNE EXPERIMENTS

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

SPACEBORNE TELESCOPES

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Cooled echelle grating spectrometer --- for space telescope applications
 [NASA-CASE-NPO-14372-1] c 35 N80-26635
 Extended range X-ray telescope
 [NASA-CASE-MFS-25282-1] c 34 N83-19015
 Dual aperture multispectral Schmidt objective
 [NASA-CASE-GSC-12756-1] c 74 N84-23248
 Spectral slicing X-ray telescope with variable magnification
 [NASA-CASE-MFS-25942-1] c 74 N86-20124
 Self indexing latch system
 [NASA-CASE-MFS-25956-1] c 37 N87-21333

SPACECRAFT

Interconnection of solar cells Patent
 [NASA-CASE-XGS-01475] c 03 N71-11058
 Attitude sensor for space vehicles Patent
 [NASA-CASE-XLA-00793] c 21 N71-22880
 Solar cell and circuit array and process for nullifying magnetic fields Patent
 [NASA-CASE-XGS-03390] c 03 N71-23187
 High efficiency ionizer assembly Patent
 [NASA-CASE-XNP-01954] c 28 N71-28850
 Altitude simulation chamber for rocket engine testing
 [NASA-CASE-MFS-20620] c 11 N72-27262
 Space probe/satellite ejection apparatus for spacecraft
 [NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACECRAFT ANTENNAS

Parasitic probe antenna Patent
 [NASA-CASE-XKS-09348] c 09 N71-13521
 Millimeter wave antenna system Patent Application
 [NASA-CASE-GSC-10949-1] c 07 N71-28965
 Integrated thermoelectric generator/space antenna combination
 [NASA-CASE-XER-09521] c 09 N72-12136
 Omnidirectional slot antenna for mounting on cylindrical space vehicle
 [NASA-CASE-LAR-10163-1] c 09 N72-25247
 Singly-curved reflector for use in high-gain antennas
 [NASA-CASE-NPO-11361] c 07 N72-32169
 Collapsible structure for an antenna reflector
 [NASA-CASE-NPO-11751] c 07 N73-24176
 Multi-channel rotating optical interface for data transmission
 [NASA-CASE-NPO-14066-1] c 74 N79-34011
 Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
 [NASA-CASE-GSC-12331-1] c 18 N80-14183
 Spiral slotted phased antenna array
 [NASA-CASE-MSC-18532-1] c 32 N82-27558

SPACECRAFT CABIN ATMOSPHERES

Thermal control wall panel Patent
 [NASA-CASE-XLA-01243] c 33 N71-22792
 Nonflammable coating compositions --- for use in high oxygen environments
 [NASA-CASE-MFS-20486-2] c 27 N74-17283
 Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
 [NASA-CASE-MSC-14771-1] c 54 N77-32722

SPACECRAFT CABINS

Suitport extra-vehicular access facility
 [NASA-CASE-ARC-11635-1] c 18 N90-16860

SPACECRAFT COMMUNICATION

Time division multiplex system
 [NASA-CASE-XGS-05918] c 07 N69-39974
 Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
 [NASA-CASE-XNP-00911] c 08 N70-41961
 Tracking receiver Patent
 [NASA-CASE-XGS-08679] c 10 N71-21473
 Omnidirectional microwave spacecraft antenna Patent
 [NASA-CASE-XLA-03114] c 09 N71-22888
 VHF/UHF parasitic probe antenna Patent
 [NASA-CASE-XKS-09340] c 07 N71-24614
 Rapid sync acquisition system Patent
 [NASA-CASE-NPO-10214] c 10 N71-26577
 Turnstile slot antenna
 [NASA-CASE-GSC-11428-1] c 32 N74-20864
 Switchable beamwidth monopulse method and system
 [NASA-CASE-GSC-11924-1] c 33 N76-27472
 Antenna feed system for receiving circular polarization and transmitting linear polarization
 [NASA-CASE-NPO-14362-1] c 32 N80-16261
 Common data buffer system --- communication with computational equipment utilized in spacecraft operations
 [NASA-CASE-KSC-11048-1] c 62 N81-24779
 Apparatus and method for determining the position of a radiant energy source
 [NASA-CASE-GSC-12147-1] c 32 N81-27341
 Measurement apparatus and procedure for the determination of surface emissivities
 [NASA-CASE-LAR-13455-1] c 32 N87-21206

Reed-Solomon decoder
 [NASA-CASE-NPO-15982-1] c 60 N87-21591

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Electrical connector Patent Application
 [NASA-CASE-MFS-14741] c 09 N70-20737
 Vibration damping system Patent
 [NASA-CASE-XMS-01620] c 23 N71-15673
 Intermittent type silica gel adsorption refrigerator Patent
 [NASA-CASE-XNP-00920] c 15 N71-15906
 Omni-directional anisotropic molecular trap Patent
 [NASA-CASE-XGS-00783] c 30 N71-17788
 Spacecraft airlock Patent
 [NASA-CASE-XLA-02050] c 31 N71-22968
 Docking structure for spacecraft Patent
 [NASA-CASE-XMF-05941] c 31 N71-23912
 Redundant actuating mechanism Patent
 [NASA-CASE-XGS-08718] c 15 N71-24600
 Space simulator Patent
 [NASA-CASE-NPO-10141] c 11 N71-24964
 Spacecraft Patent
 [NASA-CASE-MSC-13047-1] c 31 N71-25434
 Peak acceleration limiter for vibrational tester Patent
 [NASA-CASE-NPO-10556] c 14 N71-27185
 Solid state thermal control polymer coating Patent
 [NASA-CASE-XLA-01745] c 33 N71-28903
 Scientific experiment flexible mount
 [NASA-CASE-MSC-12372-1] c 31 N72-25842
 Airlock
 [NASA-CASE-MFS-20922-1] c 18 N74-22136
 Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
 [NASA-CASE-MFS-21680-1] c 18 N74-27397
 Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
 [NASA-CASE-MSC-14245-1] c 18 N75-27041
 High temperature penetrator assembly with bayonet plug and ramp-activated lock
 [NASA-CASE-MSC-18526-1] c 37 N82-24494
 Apparatus for releasably connecting first and second objects in predetermined space relationship
 [NASA-CASE-MSC-18969-1] c 18 N84-22605
 Aerospace vehicle
 [NASA-CASE-LAR-13155-1] c 05 N86-19310
 Spacecraft component heater control system
 [NASA-CASE-MFS-28327-1] c 18 N89-28556
 Docking system for spacecraft
 [NASA-CASE-MSC-21327-1] c 18 N90-11798

SPACECRAFT CONFIGURATIONS

Inflatable honeycomb Patent
 [NASA-CASE-XLA-00204] c 32 N70-36536
 Space and atmospheric reentry vehicle Patent
 [NASA-CASE-XGS-00260] c 31 N70-37924
 Spacecraft separation system for spinning vehicles and/or payloads Patent
 [NASA-CASE-XLA-02132] c 31 N71-10582
 Space shuttle vehicle and system
 [NASA-CASE-MSC-12433] c 31 N73-14854
 Space vehicle
 [NASA-CASE-MFS-22734-1] c 18 N75-19329
 Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
 [NASA-CASE-ARC-11505-1] c 18 N84-22612
 Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
 [NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACECRAFT CONSTRUCTION MATERIALS

Pressurized cell micrometeoroid detector Patent
 [NASA-CASE-XLA-00936] c 14 N71-14996
 Fluid impervious barrier including liquid metal alloy and method of making same Patent
 [NASA-CASE-XNP-08881] c 17 N71-28747
 Method of making a composite sandwich lattice structure
 [NASA-CASE-LAR-11898-2] c 24 N78-17149
 Fixture for environmental exposure of structural materials under compression load
 [NASA-CASE-LAR-12602-1] c 39 N83-32081
 Oxidation protection coatings for polymers
 [NASA-CASE-LEW-14072-3] c 27 N87-23736
 Aluminum alloy
 [NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

SPACECRAFT CONTROL

Light sensitive digital aspect sensor Patent
 [NASA-CASE-XGS-00359] c 14 N70-34158
 Space vehicle attitude control Patent
 [NASA-CASE-XNP-00465] c 21 N70-35395
 Parachute glider Patent
 [NASA-CASE-XLA-00898] c 02 N70-36804
 Attitude control for spacecraft Patent
 [NASA-CASE-XNP-00294] c 21 N70-36938
 Attitude orientation of spin-stabilized space vehicles Patent
 [NASA-CASE-XLA-00281] c 21 N70-36943

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 [NASA-CASE-XMS-04142] c 31 N70-41631
 Roll attitude star sensor system Patent
 [NASA-CASE-XNP-01307] c 21 N70-41856
 Canopus detector including automotive gain control of photomultiplier tube Patent
 [NASA-CASE-XNP-03914] c 21 N71-10771
 Spacecraft experiment pointing and attitude control system Patent
 [NASA-CASE-XLA-05464] c 21 N71-14132
 Attitude control system Patent
 [NASA-CASE-XGS-04393] c 21 N71-14159
 Reactance control system Patent
 [NASA-CASE-XMF-01598] c 21 N71-15583
 Spacecraft attitude detection system by stellar reference Patent
 [NASA-CASE-XGS-03431] c 21 N71-15642
 Inertial reference apparatus Patent
 [NASA-CASE-XAC-03107] c 23 N71-16098
 Construction and method of arranging a plurality of ion engines to form a cluster Patent
 [NASA-CASE-XNP-02923] c 28 N71-23081
 Ion beam deflector Patent
 [NASA-CASE-LEW-10689-1] c 28 N71-26173
 Heated porous plug microthruster
 [NASA-CASE-GSC-10640-1] c 28 N72-18766
 Flight control system
 [NASA-CASE-MSC-13397-1] c 21 N72-25595
 All sky pointing attitude control system
 [NASA-CASE-ARC-10716-1] c 35 N77-20399
 Propulsion apparatus and method using boil-off gas from a cryogenic liquid
 [NASA-CASE-MFS-25946-1] c 20 N86-26368
 Three axis attitude control system
 [NASA-CASE-GSC-12970-1] c 08 N88-23808

SPACECRAFT DESIGN

Lunar landing flight research vehicle Patent
 [NASA-CASE-XFR-00929] c 31 N70-34966
 Space capsule Patent
 [NASA-CASE-XLA-01332] c 31 N71-15664
 Spacecraft radiator cover Patent
 [NASA-CASE-MSC-12049] c 31 N71-16080
 Method and apparatus for securing to a spacecraft Patent
 [NASA-CASE-MFS-11133] c 31 N71-16222
 Aerodynamic protection for space flight vehicles Patent
 [NASA-CASE-XNP-02507] c 31 N71-17679
 Self supporting space vehicle Patent
 [NASA-CASE-XLA-00117] c 31 N71-17680
 Multi-mission module Patent
 [NASA-CASE-XMF-01543] c 31 N71-17730
 Docking structure for spacecraft Patent
 [NASA-CASE-XMF-05941] c 31 N71-23912
 Spacecraft Patent
 [NASA-CASE-MSC-13047-1] c 31 N71-25434
 Emergency earth orbital escape device
 [NASA-CASE-MSC-13281] c 31 N72-18859
 Space vehicle
 [NASA-CASE-MFS-22734-1] c 18 N75-19329
 Space vehicle system
 [NASA-CASE-MSC-12561-1] c 18 N76-17185
 Method and apparatus for neutralizing potentials induced on spacecraft surfaces
 [NASA-CASE-GSC-11963-1] c 33 N77-10429
 Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
 [NASA-CASE-ARC-11505-1] c 18 N84-22612
 Aerospace vehicle
 [NASA-CASE-LAR-13155-1] c 05 N86-19310
 A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
 [NASA-CASE-LAR-14156-1] c 16 N90-16781
 Fluid-loop reaction system
 [NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

SPACECRAFT DOCKING

Expanding center probe and drogue Patent
 [NASA-CASE-XMS-03613] c 31 N71-16346
 Docking structure for spacecraft Patent
 [NASA-CASE-XMF-05941] c 31 N71-23912
 Latching mechanism Patent
 [NASA-CASE-MSC-15474-1] c 15 N71-26162
 Docking structure for spacecraft
 [NASA-CASE-MFS-20863] c 31 N73-26876
 Latch mechanism
 [NASA-CASE-MSC-12549-1] c 37 N74-27903
 Spacecraft docking and alignment system --- using television camera system
 [NASA-CASE-MSC-12559-1] c 18 N76-14186
 Multiple in-line docking capability for rotating space stations
 [NASA-CASE-MFS-20855-1] c 15 N77-10112
 Combined docking and grasping device
 [NASA-CASE-MFS-23088-1] c 37 N77-23483

- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
- Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
- Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
- Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-13482
- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
- SPACECRAFT ELECTRONIC EQUIPMENT**
- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Electrical self-aligning connector --- orbital service vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- SPACECRAFT ENVIRONMENTS**
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- SPACECRAFT EQUIPMENT**
- Four-terminal electrical testing device --- initiator bridgeway resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
- Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
- System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
- SPACECRAFT GUIDANCE**
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SPACECRAFT INSTRUMENTS**
- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
- Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Spacecraft attitude control method and apparatus
[NASA-CASE-HGN-10439] c 21 N72-21624
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
- SPACECRAFT LANDING**
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
- Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
- SPACECRAFT LAUNCHING**
- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
- Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
- SPACECRAFT MODELS**
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- SPACECRAFT MODULES**
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
- Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
- Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- SPACECRAFT MOTION**
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- SPACECRAFT POSITION INDICATORS**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- SPACECRAFT POWER SUPPLIES**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
- SPACECRAFT PROPULSION**
- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- SPACECRAFT RADIATORS**
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
- SPACECRAFT RECOVERY**
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
- SPACECRAFT REENTRY**
- Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- SPACECRAFT SHIELDING**
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- SPACECRAFT STABILITY**
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089

Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

SPACECRAFT STRUCTURES

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238

Spacecraft radiator cover Patent
[NASA-CASE-MS-12049] c 31 N71-16080

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890

Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039

Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487

Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222

Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MS-12615-1] c 37 N76-19437

Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382

Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

SPACECRAFT TELEVISION

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Optical conversion method --- for spacecraft television
[NASA-CASE-MS-12618-1] c 74 N78-17865

SPACECRAFT TEMPERATURE

Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

SPACECRAFT TRACKING

Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598

Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

SPACECREWS

Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

SPACELAB PAYLOADS

Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION

Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS

Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396

Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897

Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION

High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS

High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

SPARKS

Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

SPATIAL DISTRIBUTION

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING

Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

SPATIAL RESOLUTION

Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

SPECIMENS

Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

SPECTRAL BANDS

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

SPECTRAL CORRELATION

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY

Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

SPECTRAL SIGNATURES

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SPECTROMETERS

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

SPECTROPHOTOMETERS

Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867

SPECTRORADIOMETERS

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

SPECTROSCOPIC ANALYSIS

Spectroscopy equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

SPECTROSCOPIC TELESCOPES

Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

SPECTRUM ANALYSIS

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816

SPECULAR REFLECTION

Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

SPEECH BASEBAND COMPRESSION

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MS-20821-1] c 17 N87-25348

SPEECH RECOGNITION

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SPEED CONTROL

System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070

Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

SPEED INDICATORS

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

SPEED REGULATORS

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

SPHERES

Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

SPHERICAL SHELLS

- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

SPHERICAL TANKS

- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

SPHERICAL WAVES

- Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

SPHYGMOGRAPHY

- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

SPIKE NOZZLES

- Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

SPIKE POTENTIALS

- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

SPILLING

- Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

SPIN DYNAMICS

- Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Dual twinline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

SPIN REDUCTION

- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SPIN STABILIZATION

- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
- Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
- Passive dual spin misalignment compensators --- gyro-stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SPINDLES

- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

SPINE

- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

SPIRAL ANTENNAS

- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPIRAL WRAPPING

- Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

- Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

SPIRALS (CONCENTRATORS)

- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

SPIROMETERS

- Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

SPLICING

- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

SPLINTS

- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

SPOILERS

- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

SPOKES

- Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

SPORES

- Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

SPOT WELDS

- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

SPRAY CHARACTERISTICS

- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

SPRAY NOZZLES

- Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

SPRAYED COATINGS

- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-133590-1] c 27 N83-31855
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

SPRAYERS

- External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Liquid seeding atomizer
[NASA-CASE-ARC-11163-1] c 34 N87-21255
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
- Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

SPRAYING

- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825

- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SPREAD SPECTRUM TRANSMISSION

- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

SPREADING

- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

SPRINGS (ELASTIC)

- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
- Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

SPUTTERING

- A method for the deposition of beta-silicon carbide by isoeptitary
[NASA-CASE-ERC-10120] c 26 N69-33482
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

SQUARE WAVES

- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

SQUARES (MATHEMATICS)

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

SQUEEZE FILMS

- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

SQUIBS

- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

SQUID (DETECTORS)

Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602

STABILITY

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566

STABILITY AUGMENTATION

Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

STABILITY TESTS

Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146

STABILIZATION

Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

STABILIZED PLATFORMS

Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift performance of a gimbal platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

STABILIZERS

Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396

STABILIZERS (AGENTS)

Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

STABILIZERS (FLUID DYNAMICS)

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

STABLE OSCILLATIONS

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

STACKS

Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378

STAGE SEPARATION

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663

Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488

Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

STAGNATION PRESSURE

Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

STAGNATION TEMPERATURE

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

STAINING

Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

STAINLESS STEELS

Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443

Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515

Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052

STAMPING

Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

STANDARDS

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

STANDING WAVES

Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767

Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

STAR TRACKERS

Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678

Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320

Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008

Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

STARK EFFECT

Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Stark effect spectrophotometer for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

STARTERS

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

STARTING

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

STATE VECTORS

Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

STATIC DEFORMATION

Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STATIC DISCHARGERS

Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

STATIC FRICTION

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

STATIC INVERTERS

Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752

STATIC INVERTER

Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

STATIC LOADS

Instrument for measuring torsional creep and recovery
[NASA-CASE-XLE-01481] c 14 N71-10781

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

STATIC PRESSURE

Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824

Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

STATIONKEEPING

Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

STATISTICAL ANALYSIS

Multi-stage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

STATISTICAL CORRELATION

Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

STATOR BLADES

Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

STATORS

- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

STEADY STATE

- Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
- Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691

STEAM

- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

STEAM TURBINES

- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

STEELS

- Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

STEERABLE ANTENNAS

- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
- Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

STEERING

- Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
- Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

STELLAR LUMINOSITY

- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STELLAR SPECTRA

- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STENCIL PROCESSES

- Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS

- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

STEREOPHOTOGRAPHY

- Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

STEREOSCOPIC VISION

- Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

STEREOSCOPY

- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION

- Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

System for sterilizing objects --- cleaning space vehicle systems

- [NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS

- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING

- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS

- Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STILBENE

- Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

STIMULATED EMISSION

- Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE

- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRLING ENGINES

- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

STIRRING

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

STOICHIOMETRY

- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
- MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
- Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
- Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
- Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

STORAGE

- Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
- Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES

- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
- Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
- Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
- Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

STORAGE STABILITY

- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155

Gas diffusion liquid storage bag and method of use for storing blood

- [NASA-CASE-NPO-13930-1] c 52 N79-14749

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere

- [NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS

- Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
- Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
- System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
- Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-13580

STOWAGE (ONBOARD EQUIPMENT)

- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

STRAIN DISTRIBUTION

- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

STRAIN GAGE ACCELEROMETERS

- Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
- Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES

- Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
- Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N91-13687

STRAIN GAGES

- Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
- Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
- Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
- Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
- Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

STRAIN MEASUREMENT

Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

STRAIN RATE

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740

Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

STRAKES

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

STRANDS

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

STRAPDOWN INERTIAL GUIDANCE

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

STRAPS

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

STRATIGRAPHY

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

STREAMS

Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

STRESS ANALYSIS

Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740

High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

STRESS CONCENTRATION

Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

STRESS CORROSION

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393

Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

STRESS MEASUREMENT

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422

Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512

Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STRESS RELAXATION

Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

STRESS RELIEVING

All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799

Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

STRESSES

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698

Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233

Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

STRETCHERS

Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

STRETCHING

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

STRINGERS

Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

STRINGS

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

STRIP TRANSMISSION LINES

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

STRUCTURAL ANALYSIS

Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

STRUCTURAL DESIGN

Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857

High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778

Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217

Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933

Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481

Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752

Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771

Suitor extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

STRUCTURAL DESIGN CRITERIA

Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

STRUCTURAL ENGINEERING

Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

STRUCTURAL FAILURE

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

STRUCTURAL MEMBERS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462

Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955

All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799

Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035

Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264

Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732

Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285

Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413

Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

STRUCTURAL STABILITY

Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685

Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

STRUCTURAL VIBRATION

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428

Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

STRUCTURES

Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681

STRUTS

Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679

Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401

Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

STUDS (STRUCTURAL MEMBERS)

Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

STYRENES

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

SUBASSEMBLIES

Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

SUBCRITICAL FLOW

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUBLIMATION

Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

SUBMARINES

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

SUBMERGING

Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

SUBMILLIMETER WAVES

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

SUBMINIATURIZATION

Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

SUBREFLECTORS

Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516

SUBSONIC SPEED

Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

SUBSONIC WIND TUNNELS

Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246

SUBSTRATES

Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MS-C-18737-1] c 24 N83-13171
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21359

MBE growth technology for high quality strained III-V layers

[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

SUBSTRUCTURES

Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

SUCTION

Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

SUGARS

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

SULFATES

Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

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Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

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Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

SULFONIC ACID

Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

SULFUR COMPOUNDS

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

SULFUR DIOXIDES

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MS-C-16258-1] c 45 N79-12584

SULFURIC ACID

Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

SUM RULES

Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

SUN

Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

SUNGLASSES

Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUNLIGHT

Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Sun shield
[NASA-CASE-MS-C-20162-1] c 37 N87-17036

SUPERCHARGERS

Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

SUPERCONDUCTING FILMS

Method of producing high T(subc) superconducting NBN films

[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

SUPERCONDUCTING MAGNETS

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

SUPERCONDUCTIVITY

Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MS-C-12259-2] c 07 N72-33146
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996

SUPERCONDUCTORS

Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

SUPERCOOLING

Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

SUPERCritical FLUIDS

Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUPERCritical PRESSURES

Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SUPERFLUIDITY

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING

Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

SUPERHIGH FREQUENCIES

Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

SUPERLATTICES

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

SUPERPLASTICITY

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSONIC AIRCRAFT

Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255

Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233

Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079

SUPERSONIC COMBUSTION

Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

SUPERSONIC FLIGHT

Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

SUPERSONIC FLOW

Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

SUPERSONIC INLETS

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC JET FLOW

Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

SUPERSONIC NOZZLES

Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

SUPERSONIC SPEED

Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946

Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

SUPERSONIC TRANSPORTS

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174

Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086

SUPERSONIC WIND TUNNELS

Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

SUPPLYING

Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

SUPPORT INTERFERENCE

Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404

SUPPORT SYSTEMS

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606

Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

SUPPORTS

A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740

Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454

Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673

Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412

Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267

Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052

Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261

Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-13730

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617

SUPPRESSORS

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

SURFACE ACOUSTIC WAVE DEVICES

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

SURFACE CRACKS

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SURFACE DEFECTS

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

SURFACE DIFFUSION

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

SURFACE DISTORTION

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

SURFACE FINISHING

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887

Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412

SURFACE GEOMETRY

Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

SURFACE IONIZATION

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SURFACE LAYERS

Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739

Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

SURFACE PROPERTIES

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904

Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150

SURFACE REACTIONS

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651

Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

SURFACE ROUGHNESS

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS

Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE TREATMENT

Biofilm monitoring coupon system
[NASA-CASE-MS-C-21585-1] c 51 N91-13857

SURFACE VEHICLES

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755

Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SURFACE WAVES

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

SURFACES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129

Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

Optical joint correlation for real-time tracking
[NASA-CASE-MS-C-21509-1] c 74 N91-13997

SURGES

Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062

Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

SURVIVAL EQUIPMENT

Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)

Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310

Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028

Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547

Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116

Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

SUSPENSION SYSTEMS (VEHICLES)

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SWEAT

Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

SWELLING

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEPT FORWARD WINGS

High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

SWEPT WINGS

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

SWIRLING

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569

Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

SWITCHES

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713

Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434

RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032

Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996

Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MS-C-21428-1] c 33 N91-14537

SWITCHING

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

SWITCHING CIRCUITS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033

Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548

Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MS-13492-1] c 10 N71-28860

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235

Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135

Transparent switchboard
[NASA-CASE-MS-13746-1] c 10 N73-32143

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

System for automatically switching transformer coupled lines
[NASA-CASE-MS-16697-1] c 33 N79-28415

Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

SWITCHING THEORY

Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS

Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

Double swivel toggle release
[NASA-CASE-MS-21436-1] c 37 N90-21390

SYMBOLS

Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-13596

SYNAPSES

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

SYNCHRONISM

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

Digitized synchronous demodulator
[NASA-CASE-GSC-12327-1] c 33 N91-14550

SYNCHRONIZED OSCILLATORS

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469

Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544

Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

SYNCHRONIZERS

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Pulse code modulated signal synchronizer
[NASA-CASE-MS-12462-1] c 32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MS-12494-1] c 32 N74-20810

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

SYNCHRONOUS MOTORS

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

SYNCHRONOUS SATELLITES

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

Synchronous orbit battery cyclor
[NASA-CASE-GSC-12111-1] c 03 N72-25020

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

SYNTHESIS

Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236

Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

SYNTHESIS (CHEMISTRY)

Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Bifunctional monomers having terminal oxime and cyano or amide groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12880-1] c 27 N84-22749

Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973

Synthesis of 2,4,8,10-tetroxaspiro[5,5]undecane
[NASA-CASE-ARC-11243-2] c 25 N83-33187

Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Perfluoro (imidoylamidene) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907

Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

Polenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847

Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

Fire and heat resistant laminating resins based on maleimide and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575

- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- Polycyanines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496
- Polyphenylquinoxalines containing alkylendioxo groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- Novel polyimide compositions based on 4,4'-Isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Wet spinning of solid polyimide acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MS-C-21487-1] c 25 N90-16887
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- The 1-((diorganoxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
- Bis(4-(3,4-dimethylenepyrrolydyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- Process for lowering the dielectric constant of polyimides using diamine acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
- Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
- Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
- Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
- Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
- Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
- SYNTHESIZERS**
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- SYNTHETIC APERTURE RADAR**
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12287
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
- Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
- System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-13787
- Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
- SYNTHETIC FIBERS**
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-C-12109] c 18 N71-26285
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-C-14331-3] c 27 N78-32262
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- SYNTHETIC FUELS**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- SYNTHETIC RESINS**
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
- N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
- SYNTHETIC RUBBERS**
Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- SYRINGES**
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- SYSTEM EFFECTIVENESS**
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- SYSTEM FAILURES**
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MS-C-12531-1] c 35 N75-30504
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- SYSTEMS ANALYSIS**
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
- SYSTEMS ENGINEERING**
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-C-12111-1] c 02 N71-11039
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
- Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- Evaporator source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
- Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-NPO-02791] c 07 N71-23026
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

Broadband modified turnstile antenna Patent
[NASA-CASE-MS-12209] c 09 N71-24842

Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975

Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032

Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624

Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414

Flight control system
[NASA-CASE-MS-13397-1] c 21 N72-25595

Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495

Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132

Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526

Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

SYSTOLIC ARRAYS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

T**TABS (CONTROL SURFACES)**

Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

TACHOMETERS

Digital cardiotalachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

Ratometer
[NASA-CASE-MFS-20418] c 14 N73-24473

Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TACTILE SENSORS (ROBOTICS)

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

TAIL ASSEMBLIES

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MS-18422-1] c 37 N82-16408

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

TAKEOFF

Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

TANGENTS

Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MS-13907-1] c 10 N73-26230

TANK GEOMETRY

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

TANKERS

Tanker orbit transfer vehicle and method
[NASA-CASE-MS-20543-1] c 18 N84-22610

TANKS (COMBAT VEHICLES)

Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1-CU] c 37 N87-17034

TANKS (CONTAINERS)

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MS-12280] c 27 N71-16348

Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285

Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Tank gauging apparatus and method
[NASA-CASE-MS-21059-2] c 35 N91-15511

TANTALUM

Thermionic tantalum emitter doped with oxygen Patent
Application
[NASA-CASE-NPO-11138] c 03 N70-34646

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

TANTALUM ALLOYS

Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182

TANTALUM CARBIDES

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

TANTALUM OXIDES

Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

TAPE RECORDERS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609

Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698

A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613

Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119

Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

TAPERED COLUMNS

Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658

Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

TAPERING

Tapered, tubular polyester fabric
[NASA-CASE-MS-21082-1] c 27 N87-29672

TAPE

High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

TARGET ACQUISITION

Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

TARGET RECOGNITION

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

TARGET SIMULATORS

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855

Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TARGETS

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319

Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-13482

Bi-level shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002

TECHNOLOGY UTILIZATION

Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

TECTONICS

Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

TEETH

Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

TEFLON (TRADEMARK)

Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

TELECOMMUNICATION

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-NPO-05254] c 07 N71-20791

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

Pseudo-noise test set for communication system evaluation — test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

Modulator for tone and binary signals — phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

TELEMETRY

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

Position location and data collection system and method. Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

TELEOPERATORS

Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

TELEPHONES

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

TELEPHONY

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELESCOPES

Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321

Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

Optical tracking motion Patent
[NASA-CASE-MFS-14017] c 14 N71-26627

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229

Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444

Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409

Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452

Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393

Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

TELETYPEWRITER SYSTEMS

Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612

Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

Optical conversion method — for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865

Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

TELEVISION EQUIPMENT

Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618

Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115

Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

Spacecraft docking and alignment system — using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

Optical joint correlation for real-time tracking
[NASA-CASE-MSC-21509-1] c 74 N91-13997

TELEVISION TRANSMISSION

Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790

Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

TELLURIUM

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE

Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION

Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617

Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847

Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582

Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049

Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278

Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445

Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489

Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513

Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071

Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337

Thermal compensator for closed-cycle helium refrigerator — assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105

Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MS-21428-1] c 33 N91-14537

TEMPERATURE DISTRIBUTION

Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871

Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

TEMPERATURE EFFECTS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967

Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213

Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135

Radiometric temperature reference Patent
[NASA-CASE-MS-13276-1] c 14 N71-27058

Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392

High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

Poly(carbonate-imide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

TEMPERATURE GRADIENTS

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019

Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT

Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254

Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992

Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039

Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428

Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524

Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686

Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132

Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

Plug-type heat flux gauge and method of producing same
[NASA-CASE-LEW-14967-1] c 35 N91-13685

TEMPERATURE MEASURING INSTRUMENTS

Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058

Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152

Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROBES

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROFILES

Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631

TEMPERATURE SENSORS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356

Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232

Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122

Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-18627-1] c 74 N82-30071

Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

TEMPLATES

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

TENSILE PROPERTIES

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

TENSILE STRENGTH

Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

Apparatus for tensile testing Patent
[NASA-CASE-KKS-06250] c 14 N71-15600

Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794

Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575

Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647

Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

TENSILE STRESS

Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643

Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

TENSILE TESTS

Apparatus for tensile testing Patent
[NASA-CASE-KKS-06250] c 14 N71-15600

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364

Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528

Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967

Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549

TENSION

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

TERMINAL GUIDANCE

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

TERNARY SYSTEMS

Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

TERRAIN

Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

TERRAIN ANALYSIS

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

TEST CHAMBERS

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

TEST EQUIPMENT

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955

Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

TEST FACILITIES

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

TEST STANDS

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

TEST VEHICLES

Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

TETHERED SATELLITES

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

TETHERING

Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
TETHERLINES
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

TETRAETHYL ORTHOSILICATE

Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

TETRAPHENYLS

Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HON-10364] c 06 N71-27363

TEXTILES

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

TEXTS

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

TEXTURES

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

THERAPY

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

THERMAL ABSORPTION

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Solar pond

[NASA-CASE-NPO-13581-2] c 44 N78-31525

THERMAL ANALYSIS

Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

THERMAL COMFORT

Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

THERMAL CONDUCTIVITY

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-13581
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668

THERMAL CONDUCTORS

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

THERMAL CONTROL COATINGS

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412

THERMAL DEGRADATION

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Boron-containing organosilane polymers and ceramic materials thereof

[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

THERMAL DIFFUSIVITY

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect [NASA-CASE-NPO-14657-1] c 74 N81-17887

THERMAL EMISSION

Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection

[NASA-CASE-WOO-00428-1] c 32 N79-19186

Continuous laminar smoke generator

[NASA-CASE-LAR-13014-1] c 09 N85-21178

Arc-textured high emittance radiator surfaces

[NASA-CASE-LEW-14679-1] c 27 N89-28651

THERMAL ENERGY

Energy conversion apparatus Patent

[NASA-CASE-XLE-00212] c 03 N70-34134

Device for directionally controlling electromagnetic radiation Patent

[NASA-CASE-XLE-01716] c 09 N70-40234

Thermally activated foaming compositions Patent

[NASA-CASE-LAR-10373-1] c 18 N71-26155

Gas core nuclear reactor Patent

[NASA-CASE-LEW-10250-1] c 22 N71-28759

Electrostatically controlled heat shutter

[NASA-CASE-NPO-11942-1] c 33 N73-32818

Solid medium thermal engine

[NASA-CASE-ARC-10461-1] c 44 N74-33379

Panel for selectively absorbing solar thermal energy and the method of producing said panel

[NASA-CASE-MFS-22562-1] c 44 N76-14595

Thermal energy storage system --- operating on superheating of liquids

[NASA-CASE-MFS-23167-1] c 44 N76-31667

Low to high temperature energy conversion system

[NASA-CASE-NPO-13510-1] c 44 N77-32581

Thermal energy transformer

[NASA-CASE-NPO-14058-1] c 44 N79-18443

Apparatus for improving the fuel efficiency of a gas turbine engine

[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine

[NASA-CASE-LEW-13142-2] c 07 N86-20389

Thermal power transfer system using applied potential difference to sustain operating pressure difference

[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796

Small particle selective emitter

[NASA-CASE-LEW-14731-1] c 44 N91-13802

THERMAL EXPANSION

Thermally operated valve Patent

[NASA-CASE-XLE-00815] c 15 N70-35407

Adjustable mount for a trihedral mirror Patent

[NASA-CASE-XNP-08907] c 23 N71-29123

Thermal motor

[NASA-CASE-NPO-11283] c 09 N72-25260

Glass-to-metal seals comprising relatively high expansion metals

[NASA-CASE-LEW-10698-1] c 37 N74-21063

Daze fasteners

[NASA-CASE-LAR-13009-1] c 37 N85-29285

High effectiveness contour matching contact heat exchanger

[NASA-CASE-MSC-20840-1] c 34 N88-29132

Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture

[NASA-CASE-LAR-13562-1] c 24 N90-25196

Thermal compensating mount

[NASA-CASE-LAR-14207-1] c 35 N91-14590

Method of fabricating composite structures

[NASA-CASE-MFS-28390-1] c 24 N91-15333

THERMAL FATIGUE

Automatic fatigue test temperature programmer Patent

[NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION

Piping arrangement through a double chamber structure

[NASA-CASE-XNP-08882] c 15 N69-39935

Insulating structure Patent

[NASA-CASE-XMF-00341] c 15 N70-33323

Unfired-ceramic flame-resistant insulation and method of making the same Patent

[NASA-CASE-XMF-01030] c 18 N70-41583

Techniques for insulating cryogenic fuel containers Patent

[NASA-CASE-XLA-01967] c 31 N70-42015

Lightweight refractory insulation and method of preparing the same Patent

[NASA-CASE-XMF-05279] c 18 N71-16124

Heat protection apparatus Patent

[NASA-CASE-XLA-00892] c 33 N71-17897

Cryogenic insulation system Patent

[NASA-CASE-XLE-04222] c 23 N71-22881

Insulation system Patent

[NASA-CASE-XLE-02647] c 18 N71-23658

Filament wound container Patent

[NASA-CASE-XLE-03803] c 15 N71-23816

Panelized high performance multilayer insulation Patent

[NASA-CASE-MFS-14023] c 33 N71-25351

Isothermal cover with thermal reservoirs Patent

[NASA-CASE-MFS-20355] c 33 N71-25353

Fabric for micrometeoroid protection garment Patent

[NASA-CASE-MSC-12109] c 18 N71-26285

Thickness measuring and injection device Patent

[NASA-CASE-MFS-20261] c 14 N71-27005

Cryogenic thermal insulation Patent

[NASA-CASE-XMF-05046] c 33 N71-28892

Intumescent composition, foamed product prepared therewith, and process for making same

[NASA-CASE-ARC-10304-1] c 18 N73-26572

Thermal control system for a spacecraft modular housing

[NASA-CASE-GSC-11018-1] c 31 N73-30829

Heater-mixer for stored fluids

[NASA-CASE-ARC-10442-1] c 35 N74-15093

Intumescent composition, foamed product prepared therewith and process for making same

[NASA-CASE-ARC-10304-2] c 27 N74-27037

High current electrical lead --- for thermionic converters

[NASA-CASE-LEW-10950-1] c 33 N74-27683

Structural heat pipe --- for spacecraft wall thermal insulation system

[NASA-CASE-GSC-11619-1] c 34 N75-12222

Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts

[NASA-CASE-MSC-14182-1] c 27 N76-14264

Auger attachment method for insulation --- of spacecraft

[NASA-CASE-MSC-12615-1] c 37 N76-19437

Flexible pile thermal barrier insulator

[NASA-CASE-MSC-19568-1] c 34 N78-25350

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles

[NASA-CASE-MSC-12619-2] c 27 N79-12221

Fibrous refractory composite insulation --- shielding reusable spacecraft

[NASA-CASE-ARC-11169-1] c 24 N79-24062

Thermal insulation protection means

[NASA-CASE-MSC-12737-1] c 24 N79-25142

Installing fiber insulation

[NASA-CASE-MSC-16973-1] c 37 N81-14317

Process for the preparation of polycarboranylphosphazenes --- thermal insulation

[NASA-CASE-ARC-11176-2] c 27 N81-27271

Carboranylchlorophosphazenes and their polymers --- thermal insulation

[NASA-CASE-ARC-11176-1] c 27 N82-18389

A method and technique for installing light-weight fragile, high-temperature fiber insulation

[NASA-CASE-MSC-18934-3] c 24 N82-26387

Thermal garment

[NASA-CASE-XMS-03694-1] c 54 N82-29002

Method and technique for installing light-weight, fragile, high-temperature fiber insulation

[NASA-CASE-MSC-16934-3] c 24 N84-16262

Insulation bonding test system

[NASA-CASE-MFS-25862-1] c 27 N85-20126

Cryogenic insulation strength and bond tester

[NASA-CASE-MFS-25910-1] c 39 N86-20841

Ceramic-ceramic shell tile thermal protection system and method thereof

[NASA-CASE-ARC-11641-1] c 24 N88-18628

Lightweight ceramic insulation and method

[NASA-CASE-MSC-20782-1] c 27 N90-23566

Noncontact temperature pattern measuring device

[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

Continuous plasma light source

[NASA-CASE-XNP-04167-2] c 25 N72-24753

Thermo-protective device for balances Patent

[NASA-CASE-XAC-00648] c 14 N70-40400

Ablation structures Patent

[NASA-CASE-XMS-01816] c 33 N71-15623

Spacecraft radiator cover Patent

[NASA-CASE-MSC-12049] c 31 N71-16080

Foamed in place ceramic refractory insulating material Patent

[NASA-CASE-XGS-02435] c 18 N71-22998

Ceramic insulation for radiant heating environments and method of preparing the same Patent

[NASA-CASE-MFS-14253] c 33 N71-24858

Solid state thermal control polymer coating Patent

[NASA-CASE-XLA-01745] c 33 N71-28903

Temperature reducing coating for metals subject to flame exposure Patent

[NASA-CASE-XLE-00035] c 33 N71-29151

Stand-off type ablative heat shield

[NASA-CASE-MSC-12143-1] c 33 N72-17947

Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices

[NASA-CASE-ARC-10180-1] c 27 N74-12814

Adjustable securing base

[NASA-CASE-MSC-19666-1] c 37 N78-17383

Reaction cured glass and glass coatings

[NASA-CASE-ARC-11051-1] c 27 N78-32260

Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts

[NASA-CASE-LEW-13088-1] c 26 N81-25188

Attachment system for silica tiles --- thermal protection for space shuttle orbiter

[NASA-CASE-MSC-18741-1] c 27 N82-29456

Multilayer thermal protection system

[NASA-CASE-LAR-12620-1] c 24 N82-32417

High temperature silicon carbide impregnated insulating fabrics

[NASA-CASE-MSC-18832-1] c 27 N83-18908

Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades

[NASA-CASE-LEW-13343] c 26 N83-31795

Thermal barrier coating system having improved adhesion

[NASA-CASE-LEW-1335901] c 27 N83-31855

Covering solid, film cooled surfaces with a duplex thermal barrier coating

[NASA-CASE-LEW-13450-1] c 31 N83-35177

Pre-stressed thermal protection systems

[NASA-CASE-MSC-20254-1] c 16 N84-22601

Shell tile thermal protection system

[NASA-CASE-LAR-12862-1] c 27 N84-27886

Propulsion apparatus and method using boil-off gas from a cryogenic liquid

[NASA-CASE-MFS-25946-1] c 20 N86-26368

Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines

[NASA-CASE-LAR-13353-1] c 27 N86-29039

Process for preparing highly optically transparent/colorless aromatic polyimide film

[NASA-CASE-LAR-13351-1] c 27 N86-31727

Thermal stress minimized, two component, turbine shroud seal

[NASA-CASE-LEW-14212-1] c 37 N88-23978

Polycarbonate article with chemical resistant coating

[NASA-CASE-MSC-21503-1] c 27 N90-16925

Thermal switch disc for short circuit protection of batteries

[NASA-CASE-MSC-21428-1] c 33 N91-14537

Metallic seal for thermal barrier coating systems

[NASA-CASE-LEW-15020-1] c 27 N91-15412

Compensating radiometer

[NASA-CASE-XLA-04556] c 14 N69-27484

Temperature sensitive capacitor device

[NASA-CASE-XNP-09750] c 14 N69-39937

High temperature heat source Patent

[NASA-CASE-XLE-00490] c 33 N70-34545

Thermal radiation shielding Patent

[NASA-CASE-XLE-03432] c 33 N71-24145

Cavity radiometer Patent

[NASA-CASE-XNP-08961] c 14 N71-24809

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat

Patent

[NASA-CASE-XNP-01310] c 33 N71-28852

Instrumentation for sensing moisture content of material using a transient thermal pulse

[NAS 1.71-NPO-15494-2] c 35 N85-34373

Non-equilibrium radiation nuclear reactor

[NASA-CASE-HON-10841-1] c 73 N78-19920

Diode and protection fuse unit Patent

[NASA-CASE-XKS-03381] c 09 N71-22796

Polyimide foam for the thermal insulation and fire protection

[NASA-CASE-ARC-10464-1] c 27 N74-12812

Dual measurement ablation sensor

[NASA-CASE-LAR-10105-1] c 34 N74-15652

Self-regulating proportionally controlled heating apparatus and technique

[NASA-CASE-GSC-11752-1] c 77 N75-20140

Heat resistant polymers of oxidized styrylphosphine

[NASA-CASE-MSC-14903-1] c 27 N78-32256

Ambient cure polyimide foams --- thermal resistant foams

[NASA-CASE-ARC-11170-1] c 27 N79-11215

The 1,2,4-oxadiazole elastomers --- heat resistant polymers

[NASA-CASE-ARC-11253-1] c 27 N81-17262

- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
- Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diaminobenzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganoxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- THERMAL SHOCK**
- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- THERMAL SIMULATION**
- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- THERMAL STABILITY**
- Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- High temperature resistant polyimide from tetra ester, diamine, diester and N-arynadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- THERMAL STRESSES**
- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

- Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- THERMIONIC CATHODES**
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- THERMIONIC CONVERTERS**
- Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- THERMIONIC DIODES**
- Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
- Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
- Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- THERMIONIC EMITTERS**
- Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- THERMIONIC POWER GENERATION**
- Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- THERMISTORS**
- Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- THERMOCHEMISTRY**
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- THERMOCHROMATIC MATERIALS**
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- THERMOCOUPLE PYROMETERS**
- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
- THERMOCOUPLES**
- Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
- Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568

- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- Plug-type heat flux gauge and method of producing same
[NASA-CASE-LEW-14967-1] c 35 N91-13685
- THERMODYNAMIC CYCLES**
- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- THERMODYNAMIC EFFICIENCY**
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- THERMODYNAMIC PROPERTIES**
- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diaminobenzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- THERMODYNAMICS**
- Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
- THERMOELECTRIC GENERATORS**
- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- THERMOELECTRIC MATERIALS**
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- THERMOELECTRIC POWER GENERATION**
- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803

Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612

THERMOELECTRICITY
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-13581

THERMOLUMINESCENCE
Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

THERMOMAGNETIC EFFECTS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

THERMOMETERS
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

THERMOPHYSICAL PROPERTIES
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

THERMOPILES
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

THERMOPLASTIC FILMS
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

THERMOPLASTIC RESINS
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Semipermeating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

THERMOPLASTICITY
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

THERMOREGULATION
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

THERMOSETTING RESINS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Semipermeating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

THERMOSTATS
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

THICK FILMS
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762

THICKNESS

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150

THIN FILMS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

- Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
Biofilm monitoring coupon system
[NASA-CASE-MSC-21585-1] c 51 N91-13857
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
- THIN PLATES**
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[NASA-CASE-NPO-13506-1] c 35 N76-15435
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
- THIN WALLED SHELLS**
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- THIN WALLS**
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
- THORIUM FLUORIDES**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- THORIUM OXIDES**
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- THREADS**
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- THREE AXIS STABILIZATION**
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
- THREE DIMENSIONAL FLOW**
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
- THREE DIMENSIONAL MODELS**
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
- THREE DIMENSIONAL MOTION**
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- THRESHOLD GATES**
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- THRESHOLD LOGIC**
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- THROATS**
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- THROTTLING**
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
- THRUST AUGMENTATION**
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- THRUST BEARINGS**
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
- THRUST CHAMBER PRESSURE**
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- THRUST CHAMBERS**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- THRUST CONTROL**
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- THRUST LOADS**
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- THRUST MEASUREMENT**
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- THRUST REVERSAL**
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- THRUST VECTOR CONTROL**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- THRUST-WEIGHT RATIO**
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- THULIUM**
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
- THYRISTORS**
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- TILES**
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- TILT WING AIRCRAFT**
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
- TIME**
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- TIME CONSTANT**
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- TIME DEPENDENCE**
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
- TIME DISCRIMINATION**
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- TIME DIVISION MULTIPLEXING**
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
- TIME FUNCTIONS**
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- TIME LAG**
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

- Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- TIME MEASUREMENT**
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
- TIME MEASURING INSTRUMENTS**
- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
- TIME OF FLIGHT SPECTROMETERS**
- Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
- TIME SERIES ANALYSIS**
- Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
- Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- TIME SHARING**
- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- TIME SIGNALS**
- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N86-39885
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- TIMING DEVICES**
- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
- Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- TIN OXIDES**
- Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
- TIPS**
- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
- TIRES**
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- TISSUES (BIOLOGY)**
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
- Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
- TITANATES**
- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
- TITANIUM**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- TITANIUM ALLOYS**
- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- TITANIUM NITRIDES**
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- TITANIUM OXIDES**
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
- TOILETS**
- Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
- TOLERANCES (MECHANICS)**
- Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
- A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
- TOLUENE**
- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
- TOMOGRAPHY**
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- TOOLS**
- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
- Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
- Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
- Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
- Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138
- Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-13735
- Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-15556
- TOOTH DISEASES**
- Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
- TOPOGRAPHY**
- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
- TORCHES**
- Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
- Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738
- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
- Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
- TOROIDAL SHELLS**
- Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
- TOROIDS**
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
- TORQUE**
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
- Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
- Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
- TORQUE MOTORS**
- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- TORQUE SENSORS (ROBOTICS)**
- Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
- Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
- TORQUEMETERS**
- Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Balance torqueometer Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- TORSION**
A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547
- TORSO**
Restraint torso for a pressurized suit
[NASA-CASE-MS-C-12397-1] c 05 N72-25119
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
- TOUCH**
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Method for measuring cutaneous sensory perception
[NASA-CASE-MS-C-13609-1] c 05 N72-25122
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
- TOUGHNESS**
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- TOWERS**
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
- TOXICITY**
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- TOXICITY AND SAFETY HAZARD**
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
- TOXICOLOGY**
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
- TRACE CONTAMINANTS**
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- TRACE ELEMENTS**
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- TRACKED VEHICLES**
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
- TRACKING (POSITION)**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-C-21476-1] c 37 N90-17137
Optical joint correlation for real-time tracking
[NASA-CASE-MS-C-21509-1] c 74 N91-13997
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
- TRACKING FILTERS**
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MS-C-16461-1] c 33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- TRACKING RADAR**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- TRACKING STATIONS**
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- TRACTION**
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- TRAFFIC CONTROL**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- TRAILERS**
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- TRAILING EDGES**
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
- TRAILING-EDGE FLAPS**
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- TRAINING DEVICES**
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- TRAINING SIMULATORS**
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
- TRAJECTORIES**
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
- TRAJECTORY ANALYSIS**
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- TRAJECTORY CONTROL**
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonquid vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- TRANSducers**
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
- Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
- Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
- Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
- Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
- Transducer holder and method of making
[NASA-CASE-LAR-14027-1] c 35 N91-13693
- Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
- TRANSFER FUNCTIONS**
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- TRANSFORMATIONS (MATHEMATICS)**
Programmable remapper with single flow architecture
[NASA-CASE-MS-C-21481-1] c 60 N91-13890
- TRANSFORMERS**
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturation saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001

- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- TRANSIENT HEATING**
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA 1.71:NPO-15494-2] c 35 N85-34373
- TRANSIENT LOADS**
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
- TRANSISTOR AMPLIFIERS**
- Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
- TRANSISTOR CIRCUITS**
- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
- Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
- Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
- Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- TRANSISTORS**
- Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
- Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
- Complementary OMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
- TRANSITION FLOW**
- Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
- TRANSITION TEMPERATURE**
- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- TRANSITIONAL MOTION**
- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
- Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
- TRANSLATORS**
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
- TRANSLUCENCE**
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
- TRANSMISSION CIRCUITS**
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
- TRANSMISSION EFFICIENCY**
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587
- TRANSMISSION LINES**
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
- TRANSMISSION LOSS**
- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
- TRANSMISSIONS (MACHINE ELEMENTS)**
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
- TRANSMISSIVITY**
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- TRANSMITTANCE**
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
- TRANSMITTER RECEIVERS**
- Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
- Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
- TRANSMITTERS**
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
- Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- TRANSONIC SPEED**
- Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
- TRANSONIC WIND TUNNELS**
- Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- TRANSPARENCE**
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- TRANSPARATION**
- Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
- TRANSPONDERS**
- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- TRANSPORT VEHICLES**
- Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342
- TRANSPORTATION**
- Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 65 N85-34722

TRANSVERSE ACCELERATION
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPPED PARTICLES
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

TRAPS
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING WAVE AMPLIFIERS
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HCN-10069] c 33 N75-27251
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410

TRAVELING WAVE TUBES
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

TRAVELING WAVES
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521

TREADMILLS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

TREADS
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRIGGER CIRCUITS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

TRIMERS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

TRITIUM
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TRUCKS

Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES

Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N90-26859
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544

TUBE GRIDS

Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS

Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES

Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS

Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS

Spectrophoné stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588

TUNGSTEN

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophoné stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
High Q quasi-optical tunable resonator
[NASA-CASE-NPO-17919-1-CU] c 33 N91-15489

TUNNEL DIODES
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

TUNNELING (EXCAVATION)
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

TURBINE BLADES
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

TURBINE PUMPS

- Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- TURBINE PUMPS**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- TURBINE WHEELS**
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- TURBINES**
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
- TURBOCOMPRESSORS**
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- TURBOFAN ENGINES**
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- TURBOFANS**
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
- TURBOGENERATORS**
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345
- TURBOJET ENGINE CONTROL**
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- TURBOJET ENGINES**
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- TURBOMACHINE BLADES**
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- TURBOMACHINERY**
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
- Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
- Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- TURBOSHAFTS**
Optical torque meter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
- TURBULENCE**
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
- TURBULENCE EFFECTS**
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
- TURBULENCE METERS**
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- TURBULENT BOUNDARY LAYER**
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- TURBULENT FLOW**
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- TURNSTILE ANTENNAS**
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
- TURRET**
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
- TWISTING**
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
- TWO BODY PROBLEM**
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
- TWO DIMENSIONAL BODIES**
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
- TWO PHASE FLOW**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
- TYPEWRITERS**
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

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U BENDS

- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

ULCERS

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ULLAGE

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ULTRAHIGH FREQUENCIES

- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ULTRAHIGH VACUUM

- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

ULTRAPURE METALS

- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

ULTRASONIC AGITATION

- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514

ULTRASONIC CLEANING

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ULTRASONIC FLAW DETECTION

- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

ULTRASONIC RADIATION

- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

ULTRASONIC SCANNERS

- Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

ULTRASONIC TESTS

- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
- ULTRASONIC WAVE TRANSDUCERS**
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
CDS solid state phase insensitive ultrasonic transducer --- annealing dadium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- ULTRASONIC WELDING**
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- ULTRASONICS**
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
- ULTRAVIOLET FILTERS**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
- ULTRAVIOLET LASERS**
Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- ULTRAVIOLET RADIATION**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MS-C-16074-1] c 27 N80-26446
- ULTRAVIOLET REFLECTION**
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- ULTRAVIOLET SPECTRA**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
- ULTRAVIOLET SPECTROMETERS**
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- UMBILICAL CONNECTORS**
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
- UMBILICAL TOWERS**
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
- UNDERWATER ENGINEERING**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
- UNDERWATER TESTS**
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- UNIFORM FLOW**
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
- UNIONS (CONNECTORS)**
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Mechanized fluid connector and assembly tool system.
[NASA-CASE-MS-C-21434-1] c 37 N90-17138
- UNLOADING**
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
- UNMANNED SPACECRAFT**
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- UNSATURATION (CHEMISTRY)**
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- UP-CONVERTERS**
Method and apparatus for quadruphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- UPPER ATMOSPHERE**
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- URANIUM 235**
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- UREAS**
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- URETHANES**
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- URINALYSIS**
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
- URINATION**
Open type urine receptacle
[NASA-CASE-MS-C-12324-1] c 05 N72-22093
Urine collection device
[NASA-CASE-MS-C-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MS-C-18381-1] c 52 N81-28740
- URINE**
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- UROLOGY**
Urine collection device
[NASA-CASE-MS-C-16433-1] c 52 N81-24711
- UTERUS**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

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V GROOVES

- Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

VACANCIES (CRYSTAL DEFECTS)

- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

VACUUM

- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MS-C-18852-1] c 37 N85-29283

VACUUM APPARATUS

- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

VACUUM CHAMBERS

- High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
- Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
- Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076
- Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
- VACUUM DEPOSITION**
A method for the deposition of beta-silicon carbide by isopitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- VACUUM EFFECTS**
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
- VACUUM FURNACES**
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- VACUUM GAGES**
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
- VACUUM MELTING**
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
- VACUUM PUMPS**
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- VACUUM SPECTROSCOPY**
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- VACUUM SYSTEMS**
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087

- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

VACUUM TUBES

- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

VALUE

- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

VALVES

- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
- Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
- Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
- Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
- Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723

VANES

- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

VAPOR DEPOSITION

- A method for the deposition of beta-silicon carbide by isopitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487

- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

VAPOR PHASES

- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

VAPOR PRESSURE

- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

VAPOR TRAPS

- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

VAPORIZERS

- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

VAPORIZING

- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

VAPORS

- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
- Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

VARACTOR DIODE CIRCUITS

- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

VARACTOR DIODES

- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

VARIABLEITY

- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES

- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

VARIABLE GEOMETRY STRUCTURES

- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS

- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS

- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

VARIABLE THRUST

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

VARIATIONS

- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

VECTOR ANALYSIS

- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

VECTOR CURRENTS

- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

VECTOR QUANTIZATION

- Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

VECTOCARDIOGRAPHY

- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

VEGETATION GROWTH

- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

VEHICLE WHEELS

- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

VEHICLES

- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

VEHICULAR TRACKS

- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

VELOCITY

- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

VELOCITY COUPLING

- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

VELOCITY MEASUREMENT

- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969

- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

VELOCITY MODULATION

- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

VENTILATION

- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

VENTILATORS

- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

VENTING

- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

VENTURI TUBES

- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

VENUS (PLANET)

- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

VERTICAL FLIGHT

- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

VERTICAL LANDING

- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

VERTICAL ORIENTATION

- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

VERTICAL TAKEOFF AIRCRAFT

- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570

VERY HIGH FREQUENCIES

- VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

VERY LARGE SCALE INTEGRATION

- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

VERY LONG BASE INTERFEROMETRY

- System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

VESTS

- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

VIBRATION

- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116

VIBRATION DAMPING

- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

VIBRATION EFFECTS

- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

VIBRATION ISOLATORS

- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

VIBRATION MEASUREMENT
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

VIBRATION METERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

VIBRATION MODE
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

VIBRATION SIMULATORS
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

VIBRATION TESTS
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

VIBRATIONAL SPECTRA
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

VIDEO COMMUNICATION
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

VIDEO DATA
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224

VIDEO EQUIPMENT
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

VIDEO SIGNALS

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-2] c 32 N91-15469

VIDEO TAPE RECORDERS
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

VIDEO TAPES
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

VIDICONS
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

VIEWING
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

VINYL COPOLYMERS
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

VINYL POLYMERS
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

VINYLDIENE
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

VIRUSES
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

VISCOELASTICITY
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

VISCOMETERS
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

A tough performance simultaneous
semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

VISCOUS DAMPING
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Viscous pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

VISIBILITY
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

VISIBLE SPECTRUM
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

VISUAL ACUITY
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

VISUAL STIMULI
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

VITERBI DECODERS
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

VOICE COMMUNICATION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

VOICE DATA PROCESSING
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Method and apparatus for operating on compressed PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

VOIDS

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

VOLATILITY

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

VOLT-AMPERE CHARACTERISTICS

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

VOLTAGE AMPLIFIERS

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

VOLTAGE CONTROLLED OSCILLATORS

Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Dual physiological rate measurement instrument
[NASA-CASE-MS-20078-3] c 52 N91-14709

VOLTAGE CONVERTERS (DC TO DC)

Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

VOLTAGE GENERATORS

Pulsed energy power system Patent
[NASA-CASE-MS-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

VOLTAGE REGULATORS

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09188] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

VOLTMETERS

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

VOLUME

Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
Volumetric measurement of tank volume
[NASA-CASE-MS-21500-1] c 35 N91-13683

VOLUMETRIC ANALYSIS

Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

VOMITING

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

VORTEX BREAKDOWN

Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

VORTEX GENERATORS

Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

VORTICES

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

VORTICITY

Crossflow vorticity sensor
[NASA-CASE-LAR-13438-1-CU] c 02 N88-23759

VULCANIZING

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

VULNERABILITY

Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

W

WAFERS

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Imaging X-ray spectrometer
[NASA-CASE-GSC-12882-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-GSC-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

WAKES

Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

WALKING

Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

WALKING MACHINES

Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

WALL TEMPERATURE

Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

WALLS

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
Dual diaphragm tank with telltale drain
[NASA-CASE-MS-21703-1] c 31 N91-13580

WARNING SYSTEMS

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244

Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643

System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

WASHING
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

WASTE DISPOSAL
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192

An airtlock
[NASA-CASE-MFS-20922] c 31 N72-20840

Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102

Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725

Airtlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723

Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724

WASTE ENERGY UTILIZATION
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029

Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

WASTE HEAT
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

WASTE TREATMENT
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

WASTE UTILIZATION
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

WASTE WATER
Water system virus detection
[NASA-CASE-MSC-18098-1] c 51 N79-10693

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

WATER
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384

Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

Biofilm monitoring coupon system
[NASA-CASE-MSC-21585-1] c 51 N91-13857

Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519

WATER FLOW
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

WATER INJECTION
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

WATER LANDING
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009

Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

WATER MANAGEMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

WATER POLLUTION
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086

Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413

Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

WATER QUALITY
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

WATER RECLAMATION
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

WATER RESOURCES
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

WATER TEMPERATURE
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

WATER TREATMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

WATER VAPOR
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

WATER WAVES
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

WATERPROOFING
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

WATERWAVE ENERGY CONVERSION
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WAVE AMPLIFICATION
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE GENERATION
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365

Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774

Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

WAVE INTERACTION
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

WAVE PROPAGATION
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

WAVE REFLECTION
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

WAVE RESISTANCE
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

WAVE SCATTERING
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662

Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

WAVEFORMS
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995

- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
- Family of frequency to amplitude converters
[NASA-CASE-MS-C-12395] c 09 N72-25257
- Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MS-C-12428-1] c 10 N73-25240
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MS-C-14557-1] c 32 N76-16249
- Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
- WAVEGUIDE ANTENNAS**
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- WAVEGUIDE FILTERS**
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
- WAVEGUIDE WINDOWS**
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- WAVEGUIDES**
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
- Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
- Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
- Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187
- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
- WAVELENGTHS**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
- Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
- Diatom infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
- WAVES**
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- WEAR**
Refractory coatings
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- WEAR INHIBITORS**
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- WEATHERPROOFING**
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- WEBS (SHEETS)**
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71: NPO-15494-2] c 35 N85-34373
- WEBS (SUPPORTS)**
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
- Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- WEDGES**
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- WEIGHT (MASS)**
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- WEIGHT INDICATORS**
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- WEIGHT MEASUREMENT**
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- WEIGHTLESSNESS**
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MS-C-12611-1] c 12 N76-15189
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-MS-C-14653-1] c 35 N77-19385
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
- Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
- Volumetric measurement of tank volume
[NASA-CASE-MS-C-21500-1] c 35 N91-13683
- Valve for waste collection and storage
[NASA-CASE-MS-C-21025-4] c 54 N91-14723
- Method for waste collection and storage
[NASA-CASE-MS-C-21025-2] c 54 N91-14724
- Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
- Whole body cleansing agent
[NASA-CASE-MS-C-21589-1] c 54 N91-16566
- WEIGHTLESSNESS SIMULATION**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
- Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MS-C-13972-1] c 52 N74-10975
- Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
- Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
- WELD STRENGTH**
Grain refinement control in TIG arc welding
[NASA-CASE-MS-C-19095-1] c 37 N75-19683
- WELD TESTS**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- WELDED JOINTS**
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- WELDED STRUCTURES**
Grain refinement control in TIG arc welding
[NASA-CASE-MS-C-19095-1] c 37 N75-19683
- Flanged major modular assembly jig
[NASA-CASE-MS-C-19372-1] c 39 N76-31562
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- WELDING**
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
- Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655

Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

WELDING MACHINES

Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607

Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798

Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815

Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421

Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493

Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

WET CELLS

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407

WETTING

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566

WHEATSTONE BRIDGES

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901

Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

WHEELS

Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734

WHISKER COMPOSITES

Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490

WHISKERS (CRYSTALS)

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922

WICKS

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

WIDE ANGLE LENSES

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

WIDEBAND COMMUNICATION

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

WINCHES

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

WIND DIRECTION

Radiation counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

WIND EFFECTS

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

Aircraft lifter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND MEASUREMENT

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340

Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460

Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

WIND PROFILES

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

WIND SHEAR

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

Aircraft lifter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND TUNNEL APPARATUS

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030

Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779

Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083

Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

WIND TUNNEL CALIBRATION

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

WIND TUNNEL DRIVES

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

WIND TUNNEL MODELS

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481

Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030

Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591

WIND TUNNEL NOZZLES

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

WIND TUNNEL TESTS

Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

Dual strain gage balance system for measuring light loads
[NASA-CASE-LAR-14419-1] c 35 N91-13687

WIND TUNNEL WALLS

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

WIND TUNNELS

Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095

Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273

Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358

Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

WIND TURBINES

Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639

Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

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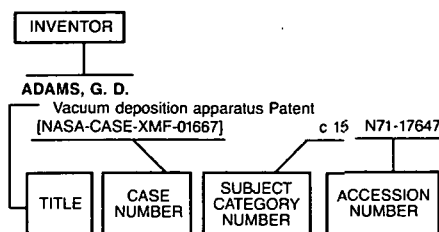
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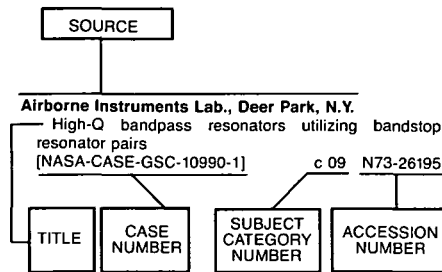
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- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
- Electronic Image Systems Corp., Cambridge, MA.**
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
- Essex Corp., Huntsville, AL.**
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- Ewen Knight Corp., East Natick, MA.**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

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- Fairchild Hiller Corp., Germantown, MD.**
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[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Fairchild Republic Co., Farmingdale, NY.**
Surface conforming thermal/pressure seal
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- Faraday Labs., Inc., La Jolla, CA.**
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Federal-Mogul Corp., Los Alamitos, CA.**
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Florida Univ., Gainesville.**
Safety flywheel
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- FMC Corp., New York, NY.**
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[NASA-CASE-XMS-00583] c 28 N70-38504
- Foothill Coll., Los Altos Hills, CA.**
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- Ford Motor Co., Dearborn, MI.**
Omnidirectional acceleration device Patent
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- Garrett Corp., Los Angeles, CA.**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
- Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
- Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
- Garrett Corp., Torrance, CA.**
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- GCA Corp., Bedford, MA.**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
- General Dynamics/Astronautics, San Diego, CA.**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- General Dynamics/Convair, San Diego, CA.**
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
- Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- General Dynamics Corp., San Diego, CA.**
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
- Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
- General Electric Co., Cincinnati, OH.**
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- Redundant disc
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- Fuel delivery system including heat exchanger means
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- Integrated gas turbine engine-nacelle
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- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
- Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
- Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- General Electric Co., Cleveland, OH.**
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- General Electric Co., Philadelphia, PA.**
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- Didymium hydrate additive to nickel hydroxide electrodes
[NASA-CASE-XGS-03505] c 03 N71-10608
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers
[NASA-CASE-XGS-02011] c 15 N71-20739
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
- Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
- Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
- Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
- General Electric Co., Pleasanton, CA.**
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[NASA-CASE-LEW-10219-1] c 18 N71-28729
- General Electric Co., Schenectady, NY.**
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- Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
- Automatic transponder
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- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- General Electric Co., Utica, NY.**
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- General Motors Corp., Detroit, MI.**
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- General Motors Corp., Milwaukee, WI.**
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[NASA-CASE-XMS-02383] c 15 N71-15918
- General Motors Corp., Santa Barbara, CA.**
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[NASA-CASE-MFS-13929] c 15 N71-27091
- General Precision, Inc., Little Falls, NJ.**
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[NASA-CASE-XLA-09371] c 10 N71-18724
- General Precision, Inc., Sunnyvale, CA.**
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- General Precision Systems, Inc., Little Falls, NJ.**
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[NASA-CASE-ERC-10031] c 12 N71-18603
- General Research Corp., Santa Barbara, CA.**
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[NASA-CASE-LAR-13098-1] c 31 N86-19479
- General Technologies Corp., Reston, VA.**
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[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Geophysics Corp. of America, Bedford, MA.**
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[NASA-CASE-XGS-03351] c 31 N71-16081
- Bakeable McLeod gauge
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- Geophysics Corp. of America, Boston, MA.**
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- George Washington Univ., Washington, DC.**
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- Arterial pulse wave pressure transducer
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- Giannini Scientific Corp., Santa Ana, CA.**
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- Combination automatic-starting electrical plasma torch and gas shutoff valve
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- Giner, Inc., Waltham, MA.**
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- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Globe-Union, Inc., Milwaukee, WI.**
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Goodyear Aerospace Corp., Akron, OH.**
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[NASA-CASE-XLA-04622] c 03 N70-41580
- Method of making a filament-wound container
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Filament wound container
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- Panellized high performance multilayer insulation
[NASA-CASE-MFS-14023] c 33 N71-25351
- Thermally activated foaming compositions
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- Grace (W. R.) and Co., Clarksville, MD.**
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- Grumman Aerospace Corp., Bethpage, NY.**
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- Grumman Aircraft Engineering Corp., Bethpage, NY.**
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- Out of tolerance warning alarm system for plurality of monitored circuits
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- Gulf General Atomic, San Diego, CA.**
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[NASA-CASE-NPO-10251] c 10 N71-27365
- Guifon Industries, Inc., Albuquerque, NM.**
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[NASA-CASE-MSC-13110-1] c 08 N72-22163
- Hamilton Standard, Windsor Locks, CT.**
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[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
- Cell and method for electrolysis of water and anode
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- Slow opening valve
[NASA-CASE-MSC-20112-1] c 37 N85-20338
- Hamilton Standard Div., United Aircraft Corp., Windsor Locks, CT.**
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- Harris Corp., Melbourne, FL.**
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- Hayes International Corp., Birmingham, AL.**
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- Device for preventing high voltage arcing in electron beam welding
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- Hayes International Corp., Huntsville, AL.**
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[NASA-CASE-MFS-10340] c 15 N71-17628
- Self-balancing strain gage transducer
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- Automatic closed circuit television arc guidance control
[NASA-CASE-MFS-13046] c 07 N71-19433
- Hazleton Labs., Falls Church, VA.**
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[NASA-CASE-XGS-05533] c 04 N69-27487
- Light detection instrument
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- Lyophilized reaction mixtures
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[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Hercules, Inc., Wilmington, DE.**
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- Hoffman Electronics Corp., El Monte, CA.**
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[NASA-CASE-XGS-04531] c 03 N69-24267
- Honeywell, Inc., Hopkins, MN.**
Frequency control network for a current feedback oscillator
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- Honeywell, Inc., Minneapolis, MN.**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Apparatus for overcurrent protection of a push-pull amplifier
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- Static inverter
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- High impedance measuring apparatus
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- Controllers
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- Radiant source tracker independent of nonconstant irradiance
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[NASA-CASE-XGS-01504] c 16 N70-41578
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[NASA-CASE-GSC-10452] c 07 N71-12396
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[NASA-CASE-XNP-09808] c 09 N71-12518
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
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[NASA-CASE-XLE-00703] c 15 N71-15967
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
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[NASA-CASE-XNP-00597] c 18 N71-23088
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[NASA-CASE-XNP-02139] c 18 N71-24184
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
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[NASA-CASE-HQN-00936] c 31 N71-29050
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[NASA-CASE-XNP-02713] c 10 N69-39888
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Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
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[NASA-CASE-XNP-09768] c 09 N71-12516
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
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[NASA-CASE-NPO-10298] c 12 N71-17661
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[NASA-CASE-XNP-09450] c 10 N71-16723
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[NASA-CASE-XNP-00777] c 10 N71-19469
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[NASA-CASE-XNP-04780] c 08 N71-19687
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
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[NASA-CASE-NPO-10096] c 07 N71-24583
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[NASA-CASE-XNP-03413] c 03 N71-26726
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[NASA-CASE-NPO-10301] c 07 N72-11148
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
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Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
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[NASA-CASE-GSC-12058-1] c 74 N77-26942
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

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Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

ILT Research Inst., Chicago, IL

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
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[NASA-CASE-MFS-23345-1] c 27 N77-30237

ILC Technology, Inc., Sunnyvale, CA.

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[NASA-CASE-MSC-18407-1] c 33 N82-24427

Illinois Univ., Urbana.

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[NASA-CASE-MSC-20206-1] c 25 N86-27431

Image Information, Inc., Danbury, CT.

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[NASA-CASE-GSC-11553-1] c 35 N74-15831

Inca Engineering Corp., San Gabriel, CA.

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[NASA-CASE-MFS-21424-1] c 34 N74-27730

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[NASA-CASE-MSC-90153-2] c 05 N72-25120

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[NASA-CASE-XMS-04212-1] c 05 N71-12346

International Business Machines Corp., Hopewell Junction, NY.

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[NASA-CASE-NPO-13969-1] c 76 N79-23798

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[NASA-CASE-XMF-04238] c 09 N69-39734

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[NASA-CASE-XMF-02107] c 15 N71-10809

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[NASA-CASE-GSC-10564] c 10 N71-29135

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[NASA-CASE-NPO-14295-1] c 76 N80-32245

International Harvester Co., San Diego, CA.

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[NASA-CASE-XLE-10910] c 18 N71-29040

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[NASA-CASE-GSC-12566-1] c 33 N83-34189

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[NASA-CASE-GSC-12565-1] c 36 N84-14509

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[NASA-CASE-MSC-12609-1] c 05 N73-32012

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[NASA-CASE-MSC-12239-1] c 52 N79-21750

ITT Corp., Nutley, NJ.

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[NASA-CASE-GSC-10373-1] c 07 N71-19773

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[NASA-CASE-XGS-08679] c 10 N71-21473

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[NASA-CASE-FRC-11005-1] c 06 N82-16075

Jet Propulsion Lab., California Inst. of Tech., Pasadena.

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[NASA-CASE-XNP-09752] c 14 N69-21541

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[NASA-CASE-XNP-07478] c 14 N69-21923

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[NASA-CASE-XNP-09785] c 08 N69-21928

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

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[NASA-CASE-NPO-10309] c 15 N69-23190

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333

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[NASA-CASE-XNP-09228] c 09 N69-27500

Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

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[NASA-CASE-NPO-10714] c 06 N69-31244

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[NASA-CASE-XNP-04180] c 07 N69-39736

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[NASA-CASE-XNP-06508] c 18 N69-39895

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[NASA-CASE-XNP-09776] c 09 N69-39929

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[NASA-CASE-XNP-08882] c 15 N69-39935

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[NASA-CASE-XNP-04816] c 06 N69-39936

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[NASA-CASE-XNP-09750] c 14 N69-39937

Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646

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[NASA-CASE-NPO-11106] c 14 N70-34697

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[NASA-CASE-NPO-10682] c 15 N70-34699

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[NASA-CASE-XNP-00733] c 06 N70-34946

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[NASA-CASE-XNP-00595] c 15 N70-34967

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[NASA-CASE-XNP-00438] c 21 N70-35089

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[NASA-CASE-XNP-00611] c 09 N70-35219

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[NASA-CASE-XNP-00449] c 14 N70-35220

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[NASA-CASE-XNP-00540] c 09 N70-35382

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

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[NASA-CASE-XNP-00465] c 21 N70-35395

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[NASA-CASE-XNP-00432] c 08 N70-35423

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[NASA-CASE-XNP-00683] c 09 N70-35425

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[NASA-CASE-XNP-00646] c 14 N70-35666

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[NASA-CASE-XNP-00644] c 03 N70-36803

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[NASA-CASE-XNP-00614] c 14 N70-36907

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[NASA-CASE-XNP-00214] c 15 N70-36908

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[NASA-CASE-XNP-00610] c 28 N70-36910

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[NASA-CASE-XNP-00748] c 07 N70-36911

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[NASA-CASE-XNP-00294] c 21 N70-36938

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[NASA-CASE-XNP-00416] c 15 N70-36947

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[NASA-CASE-XNP-00217] c 28 N70-38181

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[NASA-CASE-XNP-00612] c 11 N70-38182

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[NASA-CASE-XNP-00738] c 09 N70-38201

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[NASA-CASE-XNP-00425] c 11 N70-38202

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[NASA-CASE-XNP-00840] c 15 N70-38225

Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249

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[NASA-CASE-XNP-00450] c 15 N70-38603

Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620

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[NASA-CASE-XNP-00234] c 28 N70-38645

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[NASA-CASE-XNP-00459] c 11 N70-38675

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[NASA-CASE-XNP-00431] c 09 N70-38998

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[NASA-CASE-XNP-01104] c 28 N70-39931

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[NASA-CASE-XNP-00637] c 14 N70-40273

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[NASA-CASE-XNP-01390] c 28 N70-41275

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[NASA-CASE-XNP-01567] c 15 N70-41310

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[NASA-CASE-XNP-00876] c 28 N70-41311

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[NASA-CASE-XNP-01962] c 32 N70-41370

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[NASA-CASE-XNP-00732] c 28 N70-41447

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680

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[NASA-CASE-XNP-01472] c 14 N70-41807

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[NASA-CASE-XNP-01152] c 15 N70-41811

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[NASA-CASE-XNP-01307] c 21 N70-41856

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[NASA-CASE-XNP-01749] c 27 N70-41897

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[NASA-CASE-XNP-01951] c 09 N70-41929

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[NASA-CASE-XNP-01501] c 21 N70-41930

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[NASA-CASE-XNP-05082] c 15 N70-41960

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[NASA-CASE-XNP-03128] c 10 N70-41991

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[NASA-CASE-XNP-01383] c 09 N71-10659

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[NASA-CASE-XNP-03134] c 07 N71-10676

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[NASA-CASE-XNP-01464] c 03 N71-10728

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[NASA-CASE-XNP-00710] c 15 N71-10778

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[NASA-CASE-XNP-06506] c 03 N71-11050

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

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[NASA-CASE-XNP-05821] c 03 N71-11056

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Means for generating a sync signal in an FM communication system Patent
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[NASA-CASE-XNP-05415] c 08 N71-12505

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

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[NASA-CASE-XNP-01058] c 09 N71-12540

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[NASA-CASE-NPO-10337] c 14 N71-15604

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[NASA-CASE-NPO-10117] c 15 N71-15608

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

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[NASA-CASE-XNP-01057] c 07 N71-15907

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16219

Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357

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[NASA-CASE-XNP-08840] c 23 N71-16365

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[NASA-CASE-XNP-09462] c 14 N71-17584

Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655

Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662

Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685

Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693

Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694

Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701

Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465

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High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

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[NASA-CASE-XNP-09450] c 10 N71-18723

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[NASA-CASE-XNP-09453] c 08 N71-19420

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[NASA-CASE-XNP-04780] c 08 N71-19687

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[NASA-CASE-XNP-09770] c 15 N71-20440

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[NASA-CASE-XNP-09775] c 09 N71-20445

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[NASA-CASE-XNP-03744] c 10 N71-20448

Processing for producing a sterilized instrument Patent
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Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
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Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

High power-high voltage waterload Patent
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[NASA-CASE-XNP-03459] c 15 N71-21078

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Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
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[NASA-CASE-MSC-14053-1] c 60 N74-12888
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[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
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[NASA-CASE-MSC-14131-1] c 33 N75-19515
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[NASA-CASE-MSC-14558-1] c 32 N75-21486
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[NASA-CASE-MSC-14557-1] c 32 N76-16249
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
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[NASA-CASE-MSC-18334-1] c 32 N80-32604
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[NASA-CASE-MSC-18255-1] c 74 N80-33210
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[NASA-CASE-MSC-20622-1] c 25 N86-19413

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[NASA-CASE-MFS-25791-1] c 09 N84-27749

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[NASA-CASE-XNP-04969] c 11 N69-27466
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[NASA-CASE-XNP-09802] c 33 N71-15641
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
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[NASA-CASE-XNP-02500] c 18 N71-27397
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[NASA-CASE-MSC-13281] c 31 N72-18859
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[NASA-CASE-GSC-10945-1] c 21 N72-31637
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[NASA-CASE-ARC-10330-1] c 09 N73-32112
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[NASA-CASE-MSC-13972-1] c 52 N74-10975
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[NASA-CASE-MSC-14240-1] c 33 N75-14957
Strain arrestor plate for fused silica tile
[NASA-CASE-MSC-14182-1] c 27 N76-14264
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[NASA-CASE-MSC-14180-1] c 52 N76-14757
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[NASA-CASE-MSC-14270-1] c 27 N76-22377
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[NASA-CASE-ARC-10932-1] c 74 N76-22993
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[NASA-CASE-MSC-14270-2] c 27 N76-23426
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
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[NASA-CASE-NPO-14303-1] c 44 N80-18550

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[NASA-CASE-LAR-10208-1] c 35 N76-18400

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[NASA-CASE-FRC-11012-1] c 52 N80-23969

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[NASA-CASE-MFS-21671-1] c 33 N74-22885

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[NASA-CASE-MSC-14245-1] c 18 N75-27041

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[NASA-CASE-MSC-14273-1] c 34 N75-33342

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[NASA-CASE-LAR-10970-1] c 33 N76-14372

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[NASA-CASE-LAR-11224-1] c 37 N76-18456

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[NASA-CASE-MSC-14916-1] c 33 N78-10375

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[NASA-CASE-MSC-16043-1] c 37 N79-11402

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[NASA-CASE-XGS-03644] c 16 N71-18614

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[NASA-CASE-XMS-02159] c 10 N71-22961

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[NASA-CASE-HQN-10541-1] c 07 N71-26291

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[NASA-CASE-HQN-10541-2] c 15 N71-27135

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[NASA-CASE-HQN-10541-4] c 16 N71-27183

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[NASA-CASE-HQN-10683] c 14 N71-34389

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[NASA-CASE-HQN-10541-3] c 23 N72-23695

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[NASA-CASE-MSC-12531-1] c 35 N75-30504

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[NASA-CASE-XMS-01108] c 15 N69-24322

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[NASA-CASE-XMS-01905] c 12 N71-21089

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[NASA-CASE-XMS-01330] c 37 N75-27376

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[NASA-CASE-NPO-10863] c 06 N70-11251

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[NASA-CASE-MFS-23642-2] c 20 N78-27176

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[NASA-CASE-MFS-20317] c 15 N73-13463

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[NASA-CASE-MFS-21163-1] c 54 N74-17853

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[NASA-CASE-MFS-21556-1] c 35 N74-26945

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[NASA-CASE-MFS-21680-1] c 18 N74-27397

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[NASA-CASE-MFS-21728-1] c 35 N74-27865

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[NASA-CASE-MFS-21577-1] c 19 N74-29410

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[NASA-CASE-MFS-22073-1] c 33 N75-13139

Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

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[NASA-CASE-MFS-21606-1] c 37 N75-19685

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[NASA-CASE-LAR-13250-1] c 37 N86-27630

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[NASA-CASE-XNP-04264] c 03 N69-21337

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[NASA-CASE-NPO-10862] c 06 N72-22107

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[NASA-CASE-NPO-10863-2] c 06 N72-25152

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[NASA-CASE-NPO-12122-1] c 24 N76-14203

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[NASA-CASE-XLE-02545-1] c 76 N79-21910

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[NASA-CASE-MFS-22356-1] c 23 N75-30256
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[NASA-CASE-XMF-08665] c 10 N71-19467
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
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[NASA-CASE-NPO-14444-1] c 33 N81-15192
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[NASA-CASE-NPO-11948-1] c 33 N74-32712
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[NASA-CASE-GSC-11296-1] c 23 N73-30666
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[NASA-CASE-GSC-11222-1] c 16 N73-32391
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[NASA-CASE-LAR-11027-1] c 35 N74-18088
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[NASA-CASE-MFS-22040-1] c 35 N74-26946
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[NASA-CASE-MFS-22343-1] c 33 N74-34638
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[NASA-CASE-ARC-10469-1] c 25 N75-12086
Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087
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[NASA-CASE-ARC-10448-2] c 74 N75-12732
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[NASA-CASE-GSC-11746-1] c 36 N75-19654
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[NASA-CASE-MFS-22758-1] c 70 N75-26789
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
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[NASA-CASE-MFS-22342-1] c 33 N75-30428
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[NASA-CASE-GSC-11892-1] c 35 N76-15433
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[NASA-CASE-ARC-10816-1] c 35 N76-24525

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[NASA-CASE-ARC-10448-3] c 35 N77-14408
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[NASA-CASE-ARC-10900-1] c 35 N77-24454
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[NASA-CASE-GSC-11571-1] c 36 N77-25499
Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c 73 N78-32848
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[NASA-CASE-LEW-12569-1] c 37 N79-10418
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[NASA-CASE-GSC-12297-1] c 37 N79-28549
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[NASA-CASE-ARC-11321-1] c 27 N81-27272
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[NASA-CASE-ARC-11244-1] c 23 N82-16174
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[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-GSC-12223-1] c 60 N83-25378
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
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[NASA-CASE-ARC-11400-1] c 27 N84-14322
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[NASA-CASE-ARC-11368-3] c 27 N84-22745
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[NASA-CASE-ARC-11359-1] c 51 N84-28361
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[NASA-CASE-ARC-11243-2] c 23 N85-33187
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[NASA-CASE-ARC-11427-1] c 24 N86-19380
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[NASA-CASE-ARC-11405-2] c 27 N86-19455

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[NASA-CASE-XGS-02401] c 14 N69-27485
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[NASA-CASE-ERC-10307] c 08 N72-21198
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[NASA-CASE-ERC-10119] c 26 N72-21701
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[NASA-CASE-ERC-10222] c 09 N72-22199
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[NASA-CASE-ERC-10174] c 14 N72-25409
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[NASA-CASE-ERC-10392] c 21 N73-14692
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[NASA-CASE-HQN-10740-1] c 72 N74-19310
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[NASA-CASE-HQN-10844-1] c 36 N75-19653
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[NASA-CASE-HQN-10542-1] c 74 N75-25706
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[NASA-CASE-HQN-10876-1] c 33 N76-27473
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System and method for tracking a signal source
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[NASA-CASE-ARC-11059-1] c 54 N78-32721
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[NASA-CASE-HQN-10328-2] c 27 N82-29454
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Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342

Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517

Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089

Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653

Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729

Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816

Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072

Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051

Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669

Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597

Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813

Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10031-1] c 15 N71-27754

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952

Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128

Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409

Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172

High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152

Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464

Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092

RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438

Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769

Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240

Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141

Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231

Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463

Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111

Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812

Flexible fire retardant polyisocyanate modified neoprene foam
[NASA-CASE-ARC-10180-1] c 27 N74-12814

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

Bimetallic fluid displacement apparatus
[NASA-CASE-ARC-10441-1] c 35 N74-15126

Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778

Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929

Ultrasonic biomedical measuring and recording apparatus
[NASA-CASE-ARC-10597-1] c 52 N74-20726

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156

High speed shutter
[NASA-CASE-ARC-10516-1] c 70 N74-21300

Bio-isolated dc operational amplifier
[NASA-CASE-ARC-10596-1] c 33 N74-21851

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

Chromato-fluorographic drug detector
[NASA-CASE-ARC-10633-1] c 25 N74-26947

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof
[NASA-CASE-ARC-10593-1] c 33 N74-27682

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901

Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

Continuous Fourier transform method and apparatus
[NASA-CASE-ARC-10466-1] c 60 N75-13539

Dual wavelength scanning Doppler velocimeter
[NASA-CASE-ARC-10637-1] c 35 N75-16783

Signal conditioning circuit apparatus
[NASA-CASE-ARC-10348-1] c 33 N75-19518

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c 07 N75-24736

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041

Rotary plant growth accelerating apparatus
[NASA-CASE-ARC-10722-1] c 51 N75-25503

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

NOIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502

Diatomic infrared gasdynamic laser [NASA-CASE-ARC-10370-1]	c 36	N75-31426
Pneumatic load compensating or controlling system [NASA-CASE-ARC-10907-1]	c 37	N75-32465
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Electrical conductivity cell and method for fabricating the same [NASA-CASE-ARC-10810-1]	c 33	N76-19339
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector [NASA-CASE-ARC-10631-1]	c 74	N76-20958
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Vehicle simulator binocular multiplanar visual display system [NASA-CASE-ARC-10808-1]	c 09	N76-24280
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Visual examination apparatus [US-PATENT-RE-28,921]	c 52	N76-30793
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Optical instrument employing reticle having preselected visual response pattern formed thereon [NASA-CASE-ARC-10976-1]	c 74	N77-22950
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Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction [NASA-CASE-ARC-10970-1]	c 36	N77-25501
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Angle detector [NASA-CASE-ARC-11036-1]	c 35	N78-32395
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Environmental fog/rain visual display system for aircraft simulators [NASA-CASE-ARC-11158-1]	c 09	N82-24212
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High performance channel injection sealant invention abstract
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Method and apparatus for battery charge control Patent
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Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Tracking antenna system Patent
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[NASA-CASE-XGS-05434] c 03 N71-20491

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Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

Diversity receiving system with diversity phase lock Patent
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Signal detection and tracking apparatus Patent
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System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

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[NASA-CASE-XGS-04227] c 15 N71-21744

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974

Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996

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[NASA-CASE-XGS-02435] c 18 N71-22998

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

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[NASA-CASE-XGS-02631] c 03 N71-23006

Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

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[NASA-CASE-XGS-03427] c 10 N71-23029

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336

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[NASA-CASE-XGS-02317] c 09 N71-23525

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

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[NASA-CASE-XGS-01118] c 10 N71-23662

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[NASA-CASE-XGS-01013] c 14 N71-23725

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[NASA-CASE-XGS-04548] c 15 N71-24045

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[NASA-CASE-XGS-03120] c 15 N71-24047

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[NASA-CASE-XGS-04799] c 18 N71-24183

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Electromagnetic polarization systems and methods Patent
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Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

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[NASA-CASE-GSC-10131-1] c 07 N71-24624

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

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[NASA-CASE-GSC-10299-1] c 09 N71-24804

Annular slit collimator Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

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[NASA-CASE-XGS-05290] c 09 N71-25999

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[NASA-CASE-GSC-10735-1] c 10 N71-26085

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Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

Resettable monostable pulse generator Patent
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Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

Gravity gradient attitude control system Patent
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Millimeter wave antenna system Patent Application
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[NASA-CASE-GSC-10554-1] c 08 N71-29033

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110

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[NASA-CASE-GSC-11095-1] c 14 N72-10375

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

Helical recorder arrangement for multiple channel recording on both sides of the tape
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Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
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Position location system and method
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Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081

Frangible electrochemical cell
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Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283

Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477

Heated porous plug microthruster
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Optimum performance spacecraft solar cell system
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Monostable multivibrator
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Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

Cosmic dust sensor
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Solenoid valve including guide for armature and valve member
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Fast response low power drain logic circuits
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Trap for preventing diffusion pump backstreaming
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Resistance soldering apparatus
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Optical system support apparatus
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SCR lamp driver
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Potassium silicate zinc coatings
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Synchronous orbit battery cycler
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Flavin coenzyme assay
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Location identification system
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A dc to ac to dc converter having transistor synchronous rectifiers
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Tungsten contacts on silicon substrates
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Bacterial contamination monitor
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Honeycomb panels formed of minimal surface periodic tubule layers
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Honeycomb core structures of minimal surface tubule sections
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Gunn-type solid state devices
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Use of unilluminated solar cells as shunt diodes for a solar array
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Active tuned circuit
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Electric motive machine including magnetic bearing
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Cosmic dust or other similar outer space particles impact location detector
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Method and apparatus for determining the contents of contained gas samples
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Method and apparatus for holding two separate metal pieces together for welding
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Method of forming a sharp edge on an optical device
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Belt for transmitting power from a cogged driving member to a cogged driven member
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System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
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Device for coupling a first vehicle to a second vehicle
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Safety shield for vacuum/pressure chamber viewing port
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Buck/boost regulator
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Geodetic distance measuring apparatus
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Fluorescent radiation converter
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Portable appliance security apparatus
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Locking mechanism for orthopedic braces
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Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
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Apparatus and method for determining the position of a radiant energy source
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Microwave switching power divider
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Laser measuring system for incremental assemblies
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Memory-based frame synchronizer
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Low thrust monopropellant engine
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Linear magnetic motor/generator
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Non-contacting power transfer device
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Inorganic spark chamber frame and method of making the same
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Separator for alkaline electric cells and method of making
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Alkaline electrochemical cells and method of making
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Aqueous alkali metal hydroxide insoluble cellulose ether membrane
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Implantable electrical device
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Low intensity X-ray and gamma-ray spectrometer
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Crystal cleaving machine
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Multiprism collimator
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Massively parallel processor computer
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Variable speed drive
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Method for milling and drilling glass
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Rapid, quantitative determination of bacteria in water
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Method of damping nutation motion with minimum spin axis attitude disturbance
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Automatic thermal switch
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Cooling by conversion of para to ortho-hydrogen
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Geodetic distance measuring apparatus
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Linear magnetic bearing
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Interferometric angle monitor
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Method of neutralizing the corrosive surface of amine-cured epoxy resins
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Active lamp pulse driver circuit
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High stability amplifier
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Magnetic bearing and motor
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Heat pipe thermal switch
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Focal axis resolver for offset reflector antennas
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High speed multi focal plane optical system
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Real-time 3-D X-ray and gamma-ray viewer
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Holding fixture for a hot stamping press
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Unidirectional flexural pivot
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Tuned analog network
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Thermal control system
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High stability buffered phase comparator
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Navigation system and method
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Low noise tuned amplifier
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Dual aperture multispectral Schmidt objective
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Off-axis coherently pumped laser
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Apparatus for and method of compensating dynamic unbalance
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Workpiece positioning vise
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Memory-based parallel data output controller
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Imaging X-ray spectrometer
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Apparatus for disintegrating kidney stones
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Portable pallet weighing apparatus
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Linear magnetic bearings
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Method and apparatus for mapping the distribution of chemical elements in an extended medium
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Magnetically actuated compressor
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Method of and apparatus for measuring temperature and pressure
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Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
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Reactanceless synthesized impedance bandpass amplifier
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High voltage isolation transformer
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High voltage power supply
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Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
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JFET reflection oscillator
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Temperature averaging thermal probe
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Cutting head for ultrasonic lithotripsy
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GaAs Schottky barrier photo-responsive device and method of fabrication
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Automatic oscillator frequency control system
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Rotatable electric cable connecting system
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Optical multiple sample vacuum integrating sphere
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Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

Multispectral linear array multiband selection device
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Optical distance measuring instrument
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Method of coating a substrate with a rapidly solidified metal
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Temperature sensitive oscillator
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Method of fabricating an imaging X-ray spectrometer
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Radial and torsionally controlled magnetic bearing
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Low phase noise oscillator using two parallel connected amplifiers
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Optical scanner
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Programmable electronic synthesized capacitance
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Reciprocating linear motor
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Integrated photo-responsive metal oxide semiconductor circuit
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Three axis attitude control system
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Cellular thermosetting fluoropolymers and process for making them
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Polymeric heat pipe wick
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Legislated emergency locating transmitters and emergency position indicating radio beacons
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Surface tension confined liquid cryogen cooler
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Cellular thermosetting fluorodioxide polymers
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Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

Ceramic heat pipe wick
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Reflection oscillators employing series resonant crystals
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Control system for ruling blazed, aberration corrected diffraction gratings
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Device for applying constant pressure to a surface
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Robot cable-compliant devices
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Laser optical disk position encoder with active heads
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Method of fabricating germanium and gallium arsenide devices
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Digitized synchronous demodulator
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Robotic tool change mechanism
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Compliant joint
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Fifth wheel
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Window comparator
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Wire stripper
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Free wing assembly for an aircraft
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Air speed and attitude probe
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Rim inertial measuring system [NASA-CASE-LAR-12052-1]	c 18	N81-29152	Stirling cycle cryogenic cooler [US-PATENT-4,389,849]	c 44	N83-28574	A system for controlling the oxygen content of a gas produced by combustion [NASA-CASE-LAR-13257-1]	c 25	N84-32447
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Metric half-span model support system [NASA-CASE-LAR-12441-1]	c 09	N82-23254	Error correction method and apparatus for electronic timepieces [NASA-CASE-LAR-12654-1]	c 33	N83-36357	Extended moment arm anti-spin device [NASA-CASE-LAR-12979-1]	c 05	N85-21147
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands [NASA-CASE-LAR-12412-1]	c 08	N82-24205	Family of airfoil shapes for rotating blades [NASA-CASE-LAR-12843-1]	c 02	N84-11136	Continuous laminar smoke generator [NASA-CASE-LAR-13014-1]	c 09	N85-21178
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Hot foil transducer skin friction sensor [NASA-CASE-LAR-12321-1]	c 35	N82-24470	Solar powered aircraft [NASA-CASE-LAR-12615-1]	c 05	N84-12154	Heat pipe cooled probe [NASA-CASE-LAR-12588-1]	c 34	N85-21568
Continuous self-locking spiral wound seal [NASA-CASE-LAR-12315-1]	c 37	N82-24490	Low energy electron magnetometer using a monoenergetic electron beam [NASA-CASE-LAR-12706-1]	c 35	N84-12444	Reusable thermal cycling clamp [NASA-CASE-LAR-12868-1]	c 37	N85-21651
Solar engine [NASA-CASE-LAR-12148-1]	c 44	N82-24640	Ride quality meter [NASA-CASE-LAR-12882-1]	c 35	N84-12445	Phenoxxy resins containing pendent ethynyl groups and cured resins obtained therefrom [NASA-CASE-LAR-13262-1]	c 23	N85-28973
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Multilayer thermal protection system [NASA-CASE-LAR-12620-1]	c 24	N82-32417	Polyphenylene ethers with imide linking groups [NASA-CASE-LAR-12980-1]	c 27	N84-22749	Technique for measuring gas conversion factors [NASA-CASE-LAR-13220-1]	c 34	N86-12547
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Mechanical end joint system for structural column elements [NASA-CASE-LAR-12482-1]	c 37	N82-32732	Acoustic ground impedance meter [NASA-CASE-LAR-12995-1]	c 35	N84-22933	Process of end-capping a polyimide system [NASA-CASE-LAR-13135-1]	c 27	N86-19456
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Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841

Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789

Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791

Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039

Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413

The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669

Geometries for roughness shapes in laminar flow
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Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

Single frequency multitransmitter telemetry
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Ethynyl terminated ester oligomers and polymers therefrom
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Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

Measurement apparatus and procedure for the determination of surface emissivities
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Positive dc to positive dc converter Patent [NASA-CASE-XMF-14301]	c 09	N71-23188	Nuclear mass flowmeter [NASA-CASE-MFS-20485]	c 14	N72-11365	Rateometer [NASA-CASE-MFS-20418]	c 14	N73-24473
Zero gravity apparatus Patent [NASA-CASE-XMF-08515]	c 14	N71-23227	Fine adjustment mount [NASA-CASE-MFS-20249]	c 15	N72-11386	Underwater space suit pressure control regulator [NASA-CASE-MFS-20332-2]	c 05	N73-25125
Positive dc to negative dc converter Patent [NASA-CASE-XMF-08217]	c 03	N71-23239	Method of making foamed materials in zero gravity [NASA-CASE-XMF-09902]	c 15	N72-11387	Maxometers (peak wind speed anemometers) [NASA-CASE-MFS-20916]	c 14	N73-25460
Evacuation port seal Patent [NASA-CASE-XMF-03290]	c 15	N71-23256	Air bearing assembly for curved surfaces [NASA-CASE-MFS-20423]	c 15	N72-11388	Monitoring deposition of films [NASA-CASE-MFS-20675]	c 26	N73-26751
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Swivel support for gas bearings Patent [NASA-CASE-XMF-07808]	c 15	N71-23812	Underwater space suit pressure control regulator [NASA-CASE-MFS-20332]	c 05	N72-20097	Tilting table for ergometer and for other biomedical devices [NASA-CASE-MFS-21010-1]	c 05	N73-30078
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Docking structure for spacecraft Patent [NASA-CASE-XMF-05941]	c 31	N71-23912	An airlock [NASA-CASE-MFS-20922]	c 31	N72-20840	Collimator of multiple plates with axially aligned identical random arrays of apertures [NASA-CASE-MFS-20546-2]	c 14	N73-30389
High pressure helium purifier Patent [NASA-CASE-XMF-06888]	c 15	N71-24044	Photoetching of metal-oxide layers [NASA-CASE-ERC-10108]	c 06	N72-21094	Holographic thin film analyzer [NASA-CASE-MFS-20823-1]	c 16	N73-30476
Horizontal cryostat for fatigue testing Patent [NASA-CASE-XMF-10968]	c 14	N71-24234	Liquid aerosol dispenser [NASA-CASE-MFS-20829]	c 12	N72-21310	Semiconductor surface protection material [NASA-CASE-ERC-10339-1]	c 18	N73-30532
Method for leakage testing of tanks Patent [NASA-CASE-XMF-02392]	c 32	N71-24285	Optical probing of supersonic flows with statistical correlation [NASA-CASE-MFS-20642]	c 14	N72-21407	Polymerizable disilanolis having in-chain perfluoroalkyl groups [NASA-CASE-MFS-20979-2]	c 06	N73-32030
Internal flare angle gauge Patent [NASA-CASE-XMF-04415]	c 14	N71-24693	Mechanically actuated triggered hand [NASA-CASE-MFS-20413]	c 15	N72-21463	Redundant speed control for brushless Hall effect motor [NASA-CASE-MFS-20207-1]	c 09	N73-32107
Pulse rise time and amplitude detector Patent [NASA-CASE-XMF-08804]	c 09	N71-24717	Hermetically sealed elbow actuator [NASA-CASE-MFS-14710]	c 09	N72-22195	Induction motor control system with voltage controlled oscillator circuit [NASA-CASE-MFS-21465-1]	c 10	N73-32145
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent [NASA-CASE-XMF-06892]	c 09	N71-24805	Shielded flat cable [NASA-CASE-MFS-13687-2]	c 09	N72-22198	Synthesis of superconducting compounds by explosive compaction of powders [NASA-CASE-MFS-20861-1]	c 18	N73-32437
Power system with heat pipe liquid coolant lines Patent [NASA-CASE-MFS-14114-2]	c 09	N71-24807	Shock wave convergence apparatus [NASA-CASE-MFS-20890]	c 14	N72-22439	Ultrasonic scanner for radial and flat panels [NASA-CASE-MFS-20335-1]	c 35	N74-10415
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Apparatus for determining the deflection of an electron beam impinging on a target Patent [NASA-CASE-XMF-06617]	c 09	N71-24843	Inorganic thermal control coatings [NASA-CASE-MFS-20011]	c 18	N72-22566	Integrated circuit package with lead structure and method of preparing the same [NASA-CASE-MFS-21374-1]	c 33	N74-12951
Transistor servo system including a unique differential amplifier circuit Patent [NASA-CASE-XMF-05195]	c 10	N71-24861	High temperature furnace for melting materials in space [NASA-CASE-MFS-20710]	c 11	N72-23215	Vee-notching device [NASA-CASE-MFS-20730-1]	c 39	N74-13131
RC rate generator for slow speed measurement Patent [NASA-CASE-XMF-02966]	c 10	N71-24863	Siloxane containing epoxide compounds [NASA-CASE-MFS-13994-2]	c 06	N72-25148	Ultrasonic scanning system for in-place inspection of brazed tube joints [NASA-CASE-MFS-20767-1]	c 38	N74-15130
Method and apparatus for precision sizing and joining of large diameter tubes Patent [NASA-CASE-XMF-05114-3]	c 15	N71-24865	Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups [NASA-CASE-MFS-20979]	c 06	N72-25151	Method and apparatus for checking the stability of a setup for making reflection type holograms [NASA-CASE-MFS-21455-1]	c 35	N74-15146
Duct coupling for single-handed operation Patent [NASA-CASE-MFS-20395]	c 15	N71-24903	Emergency lunar communications system [NASA-CASE-MFS-21042]	c 07	N72-25171	Method and apparatus for nondestructive testing [NASA-CASE-MFS-21233-1]	c 38	N74-15395
Brushless direct current tachometer Patent [NASA-CASE-MFS-20385]	c 09	N71-24904	Lead attachment to high temperature devices [NASA-CASE-ERC-10224]	c 09	N72-25261	Real time moving scene holographic camera system [NASA-CASE-MFS-21087-1]	c 35	N74-17153
Self-lubricating gears and other mechanical parts Patent [NASA-CASE-MFS-14971]	c 15	N71-24984	Device for measuring bearing preload [NASA-CASE-MFS-20434]	c 11	N72-25288	Nonflammable coating compositions [NASA-CASE-MFS-20486-2]	c 27	N74-17283
Pulse width inverter Patent [NASA-CASE-MFS-10068]	c 10	N71-25139	Altitude simulation chamber for rocket engine testing [NASA-CASE-MFS-20620]	c 11	N72-27262	Metering gun for dispensing precisely measured charges of fluid [NASA-CASE-MFS-21163-1]	c 54	N74-17853
Isothermal cover with thermal reservoirs Patent [NASA-CASE-MFS-20355]	c 33	N71-25353	Fixture for supporting articles during vibration tests [NASA-CASE-MFS-20523]	c 14	N72-27412	Omnidirectional wheel [NASA-CASE-MFS-21309-1]	c 37	N74-18125
Storage container for electronic devices Patent [NASA-CASE-MFS-20075]	c 09	N71-26133	Electrical connector [NASA-CASE-MFS-20757]	c 09	N72-28225	Reinforced polyquinoxaline gasket and method of preparing the same [NASA-CASE-MFS-21364-1]	c 37	N74-18126
Method and apparatus for precision sizing and joining of large diameter tubes Patent [NASA-CASE-XMF-05114-2]	c 15	N71-26148	Remote control manipulator for zero gravity environment [NASA-CASE-MFS-14405]	c 15	N72-28495	Manual actuator [NASA-CASE-MFS-21481-1]	c 37	N74-18127
Filter system for control of outgas contamination in vacuum Patent [NASA-CASE-MFS-14711]	c 15	N71-26185	Thermal compensating structural member [NASA-CASE-MFS-20433]	c 15	N72-28496	Cryogenic gyroscope housing [NASA-CASE-MFS-21136-1]	c 35	N74-18323
Image magnification adapter for cameras Patent [NASA-CASE-XMF-03844-1]	c 14	N71-26474	Semiconductor transducer device [NASA-CASE-ERC-10087-2]	c 14	N72-31446	Automatic frequency control for FM transmitter [NASA-CASE-MFS-21540-1]	c 32	N74-19790
Thickness measuring and injection device Patent [NASA-CASE-MFS-20261]	c 14	N71-27005	Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc [NASA-CASE-MFS-20589]	c 25	N72-32688			
Personal propulsion unit Patent [NASA-CASE-MFS-20130]	c 28	N71-27585	Process for the preparation of brushite crystals [NASA-CASE-ERC-10338]	c 04	N72-33072			
			Adjustable force probe [NASA-CASE-MFS-20760]	c 14	N72-33377			

Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
 [NASA-CASE-MFS-21470-1] c 44 N74-19870
 Reduced gravity fecal collector seat and urinal
 [NASA-CASE-MFS-22102-1] c 54 N74-20725
 Metabolic analyzer
 [NASA-CASE-MFS-21415-1] c 52 N74-20728
 Automatic quadrature control and measuring system
 [NASA-CASE-MFS-21660-1] c 35 N74-21017
 Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
 [NASA-CASE-MFS-22411-1] c 37 N74-21058
 Airlock
 [NASA-CASE-MFS-20922-1] c 18 N74-22136
 Low distortion automatic phase control circuit
 [NASA-CASE-MFS-21671-1] c 33 N74-22885
 Two speed drive system
 [NASA-CASE-MFS-20645-1] c 37 N74-23070
 Insert facing tool
 [NASA-CASE-MFS-21485-1] c 37 N74-25968
 LC-oscillator with automatic stabilized amplitude via bias current control
 [NASA-CASE-MFS-21698-1] c 33 N74-26732
 Device for monitoring a change in mass in varying gravimetric environments
 [NASA-CASE-MFS-21556-1] c 35 N74-26945
 Holography utilizing surface plasmon resonances
 [NASA-CASE-MFS-22040-1] c 35 N74-26946
 Electrophoretic sample insertion
 [NASA-CASE-MFS-21395-1] c 25 N74-26948
 Sprag solenoid brake
 [NASA-CASE-MFS-21846-1] c 37 N74-26976
 Device for configuring multiple leads
 [NASA-CASE-MFS-22133-1] c 33 N74-26977
 Thrust-isolating mounting
 [NASA-CASE-MFS-21680-1] c 18 N74-27397
 Battery testing device
 [NASA-CASE-MFS-20761-1] c 44 N74-27519
 Apparatus for establishing flow of a fluid mass having a known velocity
 [NASA-CASE-MFS-21424-1] c 34 N74-27730
 Apparatus for conducting flow electrophoresis in the substantial absence of gravity
 [NASA-CASE-MFS-21394-1] c 34 N74-27744
 Steady state thermal radiometers
 [NASA-CASE-MFS-21108-1] c 34 N74-27861
 Conductive elastomeric extensometer
 [NASA-CASE-MFS-21049-1] c 52 N74-27864
 Device for measuring tensile forces
 [NASA-CASE-MFS-21728-1] c 35 N74-27865
 Three mirror glancing incidence system for X-ray telescope
 [NASA-CASE-MFS-21372-1] c 74 N74-27866
 Flame detector operable in presence of proton radiation
 [NASA-CASE-MFS-21577-1] c 19 N74-29410
 Integrated P-channel MOS gyrator
 [NASA-CASE-MFS-22343-1] c 33 N74-34638
 System for depositing thin films
 [NASA-CASE-MFS-20775-1] c 31 N75-12161
 Ultrasonic bone densitometer
 [NASA-CASE-MFS-20994-1] c 35 N75-12271
 Strain gauge ambiguity sensor for segmented mirror active optical system
 [NASA-CASE-MFS-20506-1] c 35 N75-12273
 Orthotic arm joint
 [NASA-CASE-MFS-21611-1] c 54 N75-12616
 Automatically operable self-leveling load table
 [NASA-CASE-MFS-22039-1] c 09 N75-12968
 Phase-locked servo system
 [NASA-CASE-MFS-22073-1] c 33 N75-13139
 Self-energized plasma compressor
 [NASA-CASE-MFS-22145-1] c 75 N75-13625
 Clear air turbulence detector
 [NASA-CASE-MFS-21244-1] c 36 N75-15028
 Variable frequency inverter for ac induction motors with torque, speed and braking control
 [NASA-CASE-MFS-22088-1] c 33 N75-15874
 Leak detector
 [NASA-CASE-MFS-21761-1] c 35 N75-15931
 Ergometer calibrator
 [NASA-CASE-MFS-21045-1] c 35 N75-15932
 Space vehicle
 [NASA-CASE-MFS-22734-1] c 18 N75-19329
 Meter for use in detecting tension in straps having predetermined elastic characteristics
 [NASA-CASE-MFS-22189-1] c 35 N75-19615
 Multiple focusing collimator
 [NASA-CASE-MFS-20932-1] c 35 N75-19616
 Latching device
 [NASA-CASE-MFS-21606-1] c 37 N75-19685
 Internally supported flexible duct joint
 [NASA-CASE-MFS-19193-1] c 37 N75-19686

Pseudo-noise test set for communication system evaluation
 [NASA-CASE-MFS-22671-1] c 35 N75-21582
 Device for use in loading tension members
 [NASA-CASE-MFS-21488-1] c 14 N75-24794
 Holographic system for nondestructive testing
 [NASA-CASE-MFS-21704-1] c 35 N75-25124
 Hole cutter
 [NASA-CASE-MFS-22649-1] c 37 N75-25186
 Apparatus for calibrating an image dissector tube
 [NASA-CASE-MFS-22208-1] c 33 N75-26244
 Method of determining bond quality of power transistors attached to substrates
 [NASA-CASE-MFS-21931-1] c 37 N75-26372
 Anti-gravity device
 [NASA-CASE-MFS-22758-1] c 70 N75-26789
 Brazing alloy binder
 [NASA-CASE-MFS-05868] c 26 N75-27125
 Brazing alloy composition
 [NASA-CASE-MFS-06053] c 26 N75-27126
 Refractory porcelain enamel passive control coating for high temperature alloys
 [NASA-CASE-MFS-22324-1] c 27 N75-27160
 Real time, large volume, moving scene holographic camera system
 [NASA-CASE-MFS-22537-1] c 35 N75-27328
 Method and apparatus for vibration analysis utilizing the Mossbauer effect
 [NASA-CASE-MFS-05882] c 35 N75-27329
 Method of preparing graphite reinforced aluminum composite
 [NASA-CASE-MFS-21077-1] c 24 N75-28135
 Carbon monoxide monitor
 [NASA-CASE-MFS-22060-1] c 35 N75-29380
 Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
 [NASA-CASE-MFS-22356-1] c 23 N75-30256
 Integrable power gyrator
 [NASA-CASE-MFS-22342-1] c 33 N75-30428
 Isolated output system for a class D switching-mode amplifier
 [NASA-CASE-MFS-21616-1] c 33 N75-30429
 Solar energy power system
 [NASA-CASE-MFS-21628-1] c 44 N75-32581
 System for enhancing tool-exchange capabilities of a portable wrench
 [NASA-CASE-MFS-22283-1] c 37 N75-33395
 Externally supported internally stabilized flexible duct joint
 [NASA-CASE-MFS-19194-1] c 37 N76-14460
 Quick disconnect filter coupling
 [NASA-CASE-MFS-22323-1] c 37 N76-14463
 Panel for selectively absorbing solar thermal energy and the method of producing said panel
 [NASA-CASE-MFS-22562-1] c 44 N76-14595
 Rapid activation and checkout device for batteries
 [NASA-CASE-MFS-22749-1] c 44 N76-14601
 Two stage light gas-plasma projectile accelerator
 [NASA-CASE-MFS-22287-1] c 75 N76-14931
 Polyimides of ether-linked aryl tetracarboxylic dianhydrides
 [NASA-CASE-MFS-22355-1] c 23 N76-15268
 Remotely operable articulated manipulator
 [NASA-CASE-MFS-22707-1] c 37 N76-15457
 Remote manipulator system
 [NASA-CASE-MFS-22022-1] c 37 N76-15460
 Thermoelectric power system
 [NASA-CASE-MFS-22002-1] c 44 N76-16612
 Self-energized plasma compressor
 [NASA-CASE-MFS-22145-2] c 75 N76-17951
 Device for measuring the ferrite content in an austenitic stainless-steel weld
 [NASA-CASE-MFS-22907-1] c 26 N76-18257
 Heat transfer device
 [NASA-CASE-MFS-22938-1] c 34 N76-18374
 Holographic motion picture camera with Doppler shift compensation
 [NASA-CASE-MFS-22517-1] c 35 N76-18402
 Method of peening and portable peening gun
 [NASA-CASE-MFS-23047-1] c 37 N76-18454
 Mixing insert for foam dispensing apparatus
 [NASA-CASE-MFS-20607-1] c 37 N76-19436
 Traffic survey system
 [NASA-CASE-MFS-22631-1] c 66 N76-19888
 Electronic optical transfer function analyzer
 [NASA-CASE-MFS-21672-1] c 74 N76-19935
 System for imposing directional stability on a rocket-propelled vehicle
 [NASA-CASE-MFS-21311-1] c 20 N76-21275
 Filtering device
 [NASA-CASE-MFS-22729-1] c 32 N76-21366
 Translatory shock absorber for attitude sensors
 [NASA-CASE-MFS-22905-1] c 19 N76-22284
 Device for installing rocket engines
 [NASA-CASE-MFS-19220-1] c 20 N76-22296

Deployable flexible tunnel
 [NASA-CASE-MFS-22636-1] c 37 N76-22540
 Solar energy absorber
 [NASA-CASE-MFS-22743-1] c 44 N76-22657
 Apparatus for reducing aerodynamic noise in a wind tunnel
 [NASA-CASE-MFS-23099-1] c 09 N76-23273
 Solar energy power system
 [NASA-CASE-MFS-21628-2] c 44 N76-23675
 Solar energy trap
 [NASA-CASE-MFS-22744-1] c 44 N76-24696
 Failure detection and control means for improved drift performance of a gimbaled platform system
 [NASA-CASE-MFS-23551-1] c 04 N76-26175
 Lead-oxygen dc power supply system having a closed loop oxygen and water system
 [NASA-CASE-MFS-23059-1] c 44 N76-27664
 Thermal energy storage system
 [NASA-CASE-MFS-23167-1] c 44 N76-31667
 Aircraft-mounted crash-activated transmitter device
 [NASA-CASE-MFS-16609-3] c 03 N76-32140
 Multiple in-line docking capability for rotating space stations
 [NASA-CASE-MFS-20855-1] c 15 N77-10112
 Attitude control system
 [NASA-CASE-MFS-22787-1] c 15 N77-10113
 Heat exchanger
 [NASA-CASE-MFS-22991-1] c 34 N77-10463
 Focused laser Doppler velocimeter
 [NASA-CASE-MFS-23178-1] c 35 N77-10493
 Photovoltaic cell array
 [NASA-CASE-MFS-22458-1] c 44 N77-10635
 Wind measurement system
 [NASA-CASE-MFS-23362-1] c 47 N77-10753
 Mechanical thermal motor
 [NASA-CASE-MFS-23062-1] c 37 N77-12402
 Solid-state current transformer
 [NASA-CASE-MFS-22560-1] c 33 N77-14335
 Actuator device for artificial leg
 [NASA-CASE-MFS-23225-1] c 52 N77-14735
 Frequency modulated oscillator
 [NASA-CASE-MFS-23181-1] c 33 N77-17351
 Method of and means for testing a tape record/playback system
 [NASA-CASE-MFS-22671-2] c 35 N77-17426
 Notch filter
 [NASA-CASE-MFS-23303-1] c 32 N77-18307
 Guide for a typewriter
 [NASA-CASE-MFS-15218-1] c 37 N77-19457
 Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
 [NASA-CASE-MFS-23267-1] c 35 N77-20401
 Emergency descent device
 [NASA-CASE-MFS-23074-1] c 54 N77-21844
 Device for tensioning test specimens within an hermetically sealed chamber
 [NASA-CASE-MFS-23281-1] c 35 N77-22450
 Combined docking and grasping device
 [NASA-CASE-MFS-23088-1] c 37 N77-23483
 Method of growing composites of the type exhibiting the Soret effect
 [NASA-CASE-MFS-22926-1] c 24 N77-27187
 Method for measuring biaxial stress in a body subjected to stress inducing loads
 [NASA-CASE-MFS-23299-1] c 39 N77-28511
 Method for attaching a fused-quartz mirror to a conductive metal substrate
 [NASA-CASE-MFS-23405-1] c 26 N77-29260
 Method of preparing zinc orthotitanate pigment
 [NASA-CASE-MFS-23345-1] c 27 N77-30237
 Accumulator
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 Real time reflectometer
 [NASA-CASE-MFS-23118-1] c 35 N77-31465
 Method of crystallization
 [NASA-CASE-MFS-23001-1] c 76 N77-32919
 Power factor control system for AC induction motors
 [NASA-CASE-MFS-23280-1] c 33 N78-10376
 Germanium coated microbridge and method
 [NASA-CASE-MFS-23274-1] c 33 N78-13320
 Laser extensometer
 [NASA-CASE-MFS-19259-1] c 36 N78-14380
 Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
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Sprayable low density ablator and application process [NASA-CASE-MFS-23506-1]	c 24	N78-24290	Coal-shale interface detection system [NASA-CASE-MFS-23720-2]	c 43	N80-14423	Extended range X-ray telescope [NASA-CASE-MFS-25282-1]	c 34	N83-19015
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction [NASA-CASE-MFS-23315-1]	c 76	N78-24950	Solar concentrator [NASA-CASE-MFS-23727-1]	c 44	N80-14473	Automatic weld torch guidance control system [NASA-CASE-MFS-25807-1]	c 37	N83-20154
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Method and apparatus for conditioning of nickel-cadmium batteries [NASA-CASE-MFS-23270-1]	c 44	N78-25531	Method for separating biological cells [NASA-CASE-MFS-23883-1]	c 51	N80-16715	Gas levitator having fixed levitation node for containerless processing [NASA-CASE-MFS-25509-1]	c 35	N83-24828
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Use of thin film light detector [NASA-CASE-NPO-11432-2]	c 35	N74-15090	Heat operated cryogenic electrical generator [NASA-CASE-NPO-13303-1]	c 20	N75-24837	Hydrogen-rich gas generator [NASA-CASE-NPO-13464-1]	c 44	N76-18642
Temperature compensated digital inertial sensor [NASA-CASE-NPO-13044-1]	c 35	N74-15094	System for interference signal nulling by polarization adjustment [NASA-CASE-NPO-13140-1]	c 32	N75-24982	Zinc-halide battery with molten electrolyte [NASA-CASE-NPO-11961-1]	c 44	N76-18643
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Short range laser obstacle detector [NASA-CASE-NPO-11856-1]	c 36	N74-15145	Servo-controlled intravital microscope system [NASA-CASE-NPO-13214-1]	c 35	N75-25123	Miniature muscle displacement transducer [NASA-CASE-NPO-13519-1]	c 33	N76-19338
System for stabilizing cable phase delay utilizing a coaxial cable under pressure [NASA-CASE-NPO-13138-1]	c 33	N74-17927	Ultrasonically bonded valve assembly [NASA-CASE-NPO-13360-1]	c 37	N75-25185	Zero torque gear head wrench [NASA-CASE-NPO-13059-1]	c 37	N76-20480
Banded transformer cores [NASA-CASE-NPO-11966-1]	c 33	N74-17928	Vehicle locating system utilizing AM broadcasting station carriers [NASA-CASE-NPO-13217-1]	c 32	N75-26194	Method and apparatus for measurement of trap density and energy distribution in dielectric films [NASA-CASE-NPO-13443-1]	c 76	N76-20994
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Method for providing a polarization filter for processing synthetic aperture radar image data
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[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

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Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

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[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

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[NASA-CASE-LAR-10000] c 14 N73-30394

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Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441

Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

North American Aviation, Inc., El Segundo, CA.

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569

Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076

Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536

Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876

Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951

Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053

North American Aviation, Inc., Los Angeles, CA.

Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

North American Aviation, Inc., Torrance, CA.

Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779

North American Aviation, Inc., Woodland Hills, CA.

Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469

North American Phillips Co., Inc., Briarcliff Manor, NY.

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

North American Rockwell Corp., Canoga Park, CA.

Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478

Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243

Heat flow calorimeter
[NASA-CASE-GSC-11434-1] c 34 N74-27859

North American Rockwell Corp., Downey, CA.

Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434

Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488

Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411

Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489

Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956

Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c 37 N74-18123

Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

North American Rockwell Corp., El Segundo, CA.

Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325

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[NASA-CASE-MFS-16570-1] c 05 N73-32013

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[NASA-CASE-LAR-10894-1] c 18 N73-14584

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[NASA-CASE-LAR-11902-1] c 27 N78-17206

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Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390

Northrop Corp., Hawthorne, CA.

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040

Northrop Nortronics, Palos Verdes Peninsula, CA.

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121

Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451

Northrop Space Labs., Hawthorne, CA.

Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

Nortronics, Palos Verdes Peninsula, CA.

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

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Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239

Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242

Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

Oakland Univ., Rochester, MI.

Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

Occidental Research Corp., La Verne, CA.

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Ohio State Univ., Columbus.

Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330

Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

Old Dominion Univ., Norfolk, VA.

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232

Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

High-temperature microphone system
[NASA-CASE-LAR-12375-1] c 32 N79-24203

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

Oregon Univ., Portland.

Method for separating biological cells
[NASA-CASE-MFS-23883-1] c 51 N80-16715

Organon Diagnostics, El Monte, CA.

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[NASA-CASE-MSC-16098-1] c 51 N79-10693

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Packard-Bell Electronics Corp., Newbury Park, CA.

Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955

Panaura Corp., Pennsauken, NJ.

Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

PCR, Inc., Gainesville, FL.

Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

Peninsular ChemResearch, Inc., Gainesville, FL.

Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254

Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121

Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151

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[NASA-CASE-NPO-10767-1] c 06 N73-33076

Pennsylvania State Univ., University Park.

Process for the preparation of polycarbonylphosphazenes
[NASA-CASE-ARC-11176-2] c 27 N81-27271

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[NASA-CASE-ARC-11176-1] c 27 N82-18389

Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

Philco-Ford Corp., Houston, TX.

Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

Philco-Ford Corp., Newport Beach, CA.

Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

Philco-Ford Corp., Palo Alto, CA.

Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Phoenix Corp., McLean, VA.

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[NASA-CASE-GSC-12334-1] c 36 N79-14362

Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

Pittsburgh Univ., PA.

Method and device for the detection of phenol and related compounds
[NASA-CASE-LEW-12513-1] c 25 N79-22235

Planning Research Corp., McLean, VA.

Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

Pratt and Whitney Aircraft, East Hartford, CT.

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

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Quantum Dynamics Co., Inc., Tarzana, CA.

Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015

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Radiation, Inc., Melbourne, FL

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

Radiation Instrument Development Lab., Inc., Melrose Park, IL

High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544

Radiation Systems, Inc., McLean, VA

Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

Radio Corp. of America, Lancaster, PA

Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735

Radio Corp. of America, New York, NY

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318

Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064

Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

Radio Corp. of America, Princeton, NJ

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539

Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049

Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043

Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184

Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407

Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469

Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly
[NASA-CASE-GSC-11560-1] c 33 N74-20861

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331

Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389

Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

RAND Corp., Santa Monica, CA

Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

Raymond Engineering Lab., Inc., Middletown, CT

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Raytheon Co., Sudbury, MA

Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

RCA Labs., Princeton, NJ

Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752

RCA Service Co., Inc., Camden, NJ

Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

Rensselaer Polytechnic Inst., Troy, NY

Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

Research Triangle Inst., Durham, NC

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422

Rochester General Hospital, NY

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

Rochester Univ., NY

Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

Rockwell International Corp., Canoga Park, CA

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974

Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356

Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631

Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213

Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679

Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c 37 N75-19586

Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399

Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

Stable superconducting magnet
[NASA-CASE-XMF-05373-1] c 33 N79-21264

Rockwell International Corp., Downey, CA

Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554

Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482

Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499

Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383

Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333

Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350

Variable contour securing system
[NASA-CASE-MSC-19270-1] c 37 N78-27423

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187

Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

Thermal barrier pressure seal
[NASA-CASE-MSC-18134-1] c 37 N81-15363

Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

Attachment system for silica tiles
[NASA-CASE-MSC-18741-1] c 27 N82-29456

Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520

Degassifying and mixing apparatus for liquids
[NASA-CASE-MSC-18936-1] c 35 N83-29652

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

Rockwell International Corp., Houston, TX

Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

Rockwell International Corp., Los Angeles, CA

Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398

Rockwell International Corp., Pittsburgh, PA

CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

Roph Corp., Chula Vista, CA

Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522

Royal Aircraft Establishment, Farnborough (England)

Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

Ryan Aeronautical Co., San Diego, CA

Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

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San Jose State Univ., CA.

Chelate-modified polymers for atmospheric gas chromatography

[NASA-CASE-ARC-11154-1] c 25 N80-23383

Indomethacin-antihistamine combination for gastric ulceration control

[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control

[NASA-CASE-ARC-11118-1] c 52 N81-29764

Use of glow discharge in fluidized beds

[NASA-CASE-ARC-11245-1] c 28 N82-18401

Preparation of crosslinked 1,2,4-oxadiazole polymer

[NASA-CASE-ARC-11253-2] c 27 N82-24338

Fire extinguishant materials

[NASA-CASE-ARC-11252-1] c 25 N83-36118

Fluoroether modified epoxy composites

[NASA-CASE-ARC-11418-1] c 24 N84-11213

Process for preparing perfluorotriazine elastomers and precursors thereof

[NASA-CASE-ARC-11402-1] c 27 N84-22744

Perfluoro (imidoylamidine) diamidines

[NASA-CASE-ARC-11402-3] c 23 N86-21582

Sanders Associates, Inc., Nashua, NH.

Increasing efficiency of switching type regulator circuits

Patent

[NASA-CASE-XMS-09352] c 09 N71-23316

Sandia Labs., Albuquerque, NM.

Fluid sampling device

[NASA-CASE-GSC-12143-1] c 35 N77-32456

Santa Barbara Research Center, Goleta, CA.

Scanner

[NASA-CASE-GSC-12032-2] c 43 N82-13465

Santa Clara Univ., CA.

Reversed cowl flap inlet thrust augmentor

[NASA-CASE-ARC-10754-1] c 07 N75-24736

System for measuring Reynolds in a turbulently flowing fluid

[NASA-CASE-ARC-10755-2] c 34 N76-27517

System for measuring three fluctuating velocity components in a turbulently flowing fluid

[NASA-CASE-ARC-10974-1] c 34 N77-27345

Noise suppressor for turbo fan jet engines

[NASA-CASE-ARC-10812-1] c 07 N83-33884

Schjeldahl (G. T.) Co., Northfield, MN.

Rotating mandrel for assembly of inflatable devices

Patent

[NASA-CASE-XLA-04143] c 15 N71-17687

Traveling sealer for contoured table

Patent

[NASA-CASE-XLA-01494] c 15 N71-24164

Science Applications, Inc., La Jolla, CA.

Ultra-violet process for producing flame resistant polyamides and products produced thereby

[NASA-CASE-MSC-16074-1] c 27 N80-26446

Scott Aviation Corp., Lancaster, NY.

Self-contained breathing apparatus

[NASA-CASE-MSC-14733-1] c 54 N76-24900

Serv-Air, Inc., Edwards, CA.

Portable device for use in starting air-start-units for aircraft and having cable lead testing capability

[NASA-CASE-FRC-10113-1] c 33 N80-26599

Serv-Air, Inc., Houston, TX.

Stator rotor tools

[NASA-CASE-MSC-16000-1] c 37 N78-24544

Sheldahl Co., Northfield, MN.

Method and apparatus for preparing multiconductor cable with flat conductors

[NASA-CASE-MFS-10946-1] c 31 N79-21226

Edge coating of flat wires

[NASA-CASE-XMF-05757-1] c 31 N79-21227

Sikorsky Aircraft, Stratford, CT.

Locking redundant link

[NASA-CASE-LAR-11900-1] c 37 N79-14382

Aircraft rotor blade with passive tuned tab

[NASA-CASE-ARC-11444-1] c 05 N85-29947

Singer Co., Binghamton, NY.

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[NASA-CASE-MSC-20258-1] c 60 N84-28492

Singer-General Precision, Inc., Binghamton, NY.

CRT blanking and brightness control circuit

[NASA-CASE-KSC-10647-1] c 10 N72-31273

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[NASA-CASE-XNP-01107] c 10 N71-28859

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[NASA-CASE-NPO-10575] c 03 N72-25019

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[NASA-CASE-MFS-20068] c 07 N71-27191

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[NASA-CASE-MFS-20453] c 15 N71-29133

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[NASA-CASE-KSC-10521] c 07 N73-20176

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[NASA-CASE-MFS-22133-1] c 33 N74-26977

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[NASA-CASE-MFS-22283-1] c 37 N75-33395

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[NASA-CASE-MFS-22707-1] c 37 N76-15457

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[NASA-CASE-HQN-10439] c 21 N72-21624

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[NASA-CASE-HQN-10844-1] c 36 N75-19653

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[NASA-CASE-MFS-23315-1] c 76 N78-24950

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[NASA-CASE-GSC-10835-1] c 09 N72-33205
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[NASA-CASE-NPO-14424-1] c 33 N80-32650

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[NASA-CASE-MSC-14339-1] c 05 N75-24716

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[NASA-CASE-LAR-11995-1] c 28 N77-10213

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[NASA-CASE-NPO-14109-1] c 28 N80-23471
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[NASA-CASE-WOO-00428-1] c 32 N79-19186

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[NASA-CASE-NPO-12127-1] c 91 N74-13130
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[NASA-CASE-LEW-10199-1] c 27 N74-23125
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[NASA-CASE-ARC-10198] c 34 N78-17336
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[NASA-CASE-MFS-22597] c 36 N78-17366
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[NASA-CASE-WOO-00625] c 37 N78-17385
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[NASA-CASE-NPO-10151] c 37 N78-17386
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[NASA-CASE-XGS-00829-1] c 44 N79-19447
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[NASA-CASE-NPO-10416] c 12 N71-27332
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[NASA-CASE-MSC-11847-1] c 14 N72-11363
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[NASA-CASE-NPO-11018] c 08 N72-21200
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[NASA-CASE-NPO-12072] c 28 N72-22772
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[NASA-CASE-NPO-11078] c 09 N72-25262
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[NASA-CASE-NPO-11016] c 08 N72-31226
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[NASA-CASE-NPO-13360-1] c 37 N75-25185
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[NASA-CASE-GSC-11998-1] c 34 N77-32413
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[NASA-CASE-XMS-09637-1] c 05 N71-24730
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[NASA-CASE-XGS-09186] c 33 N78-17295
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[NASA-CASE-XMS-04670] c 54 N78-17678
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[NASA-CASE-XMS-04928] c 54 N78-17679
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[NASA-CASE-MSC-10954-1] c 54 N78-18761
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[NASA-CASE-HQN-00573-1] c 37 N79-33468
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[NASA-CASE-HQN-10274-1] c 27 N82-29451
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[NASA-CASE-XMF-06884-1] c 20 N79-21123
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[NASA-CASE-MFS-23646-1] c 37 N79-22474
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[NASA-CASE-MSC-16182-1] c 54 N80-10799
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[NASA-CASE-MFS-11492] c 06 N73-30102

Fluorine containing polyurethane
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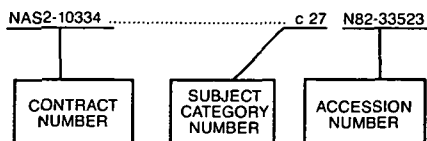
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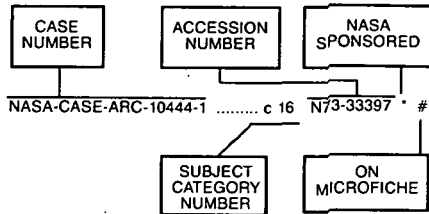
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NAS 1.71:LEW-14731-1	c 44	N91-13802 *	NAS 1.71:MSC-21434-1	c 37	N90-17138 *	NAS 1.71:NPO-17633-1-CU	c 27	N90-15263 *
NAS 1.71:LEW-14734-1	c 24	N89-23623 *	NAS 1.71:MSC-21460-1	c 54	N91-13879 *	NAS 1.71:NPO-17653-1-CU	c 51	N90-27239 *
NAS 1.71:LEW-14776-1	c 37	N90-15445 *	NAS 1.71:MSC-21469-1	c 37	N90-26340 *	NAS 1.71:NPO-17664-1-CU	c 62	N90-27384 *
NAS 1.71:LEW-14795-1	c 74	N90-15733 *	NAS 1.71:MSC-21470-1	c 09	N90-16771 *	NAS 1.71:NPO-17703-1-CU	c 74	N89-29191 *
NAS 1.71:LEW-14846-1	c 20	N90-15130 *	NAS 1.71:MSC-21476-1	c 37	N90-17137 *	NAS 1.71:NPO-17716-1-CU	c 62	N90-10608 *
NAS 1.71:LEW-14848-1	c 14	N89-28549 *	NAS 1.71:MSC-21481-1	c 60	N91-13890 *	NAS 1.71:NPO-17723-1-CU	c 76	N90-26685 *
NAS 1.71:LEW-14862-1	c 37	N91-13730 *	NAS 1.71:MSC-21487-1	c 25	N90-16887 *	NAS 1.71:NPO-17724-1-CU	c 76	N90-27517 *
NAS 1.71:LEW-14878-1	c 74	N91-13996 *	NAS 1.71:MSC-21500-1	c 35	N91-13683 *	NAS 1.71:NPO-17736-1-CU	c 76	N90-17455 *
NAS 1.71:LEW-14880-1	c 35	N90-10415 *	NAS 1.71:MSC-21502-1	c 37	N90-26341 *	NAS 1.71:NPO-17784-1-CU	c 74	N91-13998 *
NAS 1.71:LEW-14901-1	c 75	N90-10718 *	NAS 1.71:MSC-21503-1	c 27	N90-16925 *	NAS 1.71:NPO-17785-1-CU	c 37	N89-28846 *
NAS 1.71:LEW-14902-1	c 24	N91-13503 *	NAS 1.71:MSC-21504-1	c 18	N90-26859 *	NAS 1.71:NPO-17786-1-CU	c 35	N90-17104 *
NAS 1.71:LEW-14921-1	c 24	N91-13502 *	NAS 1.71:MSC-21509-1	c 74	N91-13997 *	NAS 1.71:NPO-17800-1-CU	c 37	N91-13724 *
NAS 1.71:LEW-14945-1	c 32	N91-13598 *	NAS 1.71:MSC-21534-1	c 18	N90-26860 *	NAS 1.71:NPO-17801-1-CU	c 37	N90-27110 *
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NAS 1.71:LEW-14959-1	c 44	N91-13803 *	NAS 1.71:MSC-21540-1	c 37	N90-26342 *	NAS 1.71:NPO-17806-1-CU	c 31	N91-13581 *
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NAS 1.71:LEW-14967-1	c 35	N91-13685 *	NAS 1.71:MSC-21549-1	c 34	N91-13657 *	NAS 1.71:NPO-17812-1-CU	c 76	N90-17456 *
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NAS 1.71:LEW-15027-1	c 27	N91-13566 *	NAS 1.71:MSC-21589-1	c 54	N91-16566 *	NAS 1.71:NPO-17853-1-CU	c 32	N90-16975 *
NAS 1.71:MFS-25302-2	c 33	N84-33660 *	NAS 1.71:MSC-21629-1	c 54	N89-29027 *	NAS 1.71:NPO-17858-1-CU	c 24	N90-26880 *
NAS 1.71:MFS-25637-1	c 44	N85-21769 *	NAS 1.71:MSC-21662-1	c 51	N91-17531 *	NAS 1.71:NPO-17873-1-CU	c 32	N90-27015 *
NAS 1.71:MFS-25717-1	c 35	N84-33768 *	NAS 1.71:MSC-21671-1	c 37	N91-13723 *	NAS 1.71:NPO-17896-1-CU	c 32	N91-13596 *
NAS 1.71:MFS-25721-1	c 25	N85-21280 *	NAS 1.71:MSC-21675-1	c 52	N91-13865 *	NAS 1.71:NPO-17897-1-CU	c 33	N90-27040 *
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NAS 1.71:MFS-25861-1	c 33	N85-22877 *	NAS 1.71:MSC-21729-1	c 34	N91-17340 *	NAS 1.71:NPO-17911-1-CU	c 32	N90-27016 *
NAS 1.71:MFS-25862-1	c 27	N85-20126 *	NAS 1.71:MSC-21737-1	c 61	N91-13911 *	NAS 1.71:NPO-17913-1-CU	c 74	N90-27488 *
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NAS 1.71:MFS-26002-1-CU	c 35	N86-26598 *	NAS 1.71:NPO-15155-1	c 74	N85-22139 *	NAS 1.71:NPO-17917-1-CU	c 37	N90-26339 *
NAS 1.71:MFS-26049-1-NP	c 25	N89-28603 *	NAS 1.71:NPO-15295-1	c 60	N85-21992 *	NAS 1.71:NPO-17919-1-CU	c 33	N91-15489 *
NAS 1.71:MFS-26061-1	c 76	N91-16815 *	NAS 1.71:NPO-15341-1	c 35	N84-33769 *	NAS 1.71:NPO-17922-1-CU	c 33	N91-13621 *
NAS 1.71:MFS-26083-1-CU	c 26	N90-26940 *	NAS 1.71:NPO-15430-1	c 46	N85-21846 *	NAS 1.71:NPO-17937-1-CU	c 43	N91-13787 *
NAS 1.71:MFS-26102-1-CU	c 47	N91-15661 *	NAS 1.71:NPO-15433-1	c 32	N85-21428 *	NAS 1.71:NPO-17939-1-CU	c 60	N90-26518 *
NAS 1.71:MFS-28008-1	c 35	N85-20300 *	NAS 1.71:NPO-15466-1	c 71	N85-22104 *	NAS 1.71:NPO-17941-1-CU	c 32	N91-13595 *
NAS 1.71:MFS-28013-1	c 89	N86-22459 *	NAS 1.71:NPO-15483-1	c 37	N85-21650 *	NAS 1.71:NPO-17949-1-CU	c 76	N90-26684 *
NAS 1.71:MFS-28013-2	c 89	N91-14096 *	NAS 1.71:NPO-15493-2	c 35	N85-34373 *	NAS 1.71:NPO-17954-1-CU	c 60	N90-26519 *
NAS 1.71:MFS-28013-3	c 89	N90-27594 *	NAS 1.71:NPO-15494-2	c 35	N85-34373 *	NAS 1.71:NPO-17970-1-CU	c 43	N90-26384 *
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NAS 1.71:MFS-28139-1	c 29	N87-18679 *	NAS 1.71:NPO-15558-1	c 35	N84-34705 *	NAS 1.71:NPO-18034-1-CU	c 44	N91-13796 *
NAS 1.71:MFS-28153-1	c 31	N86-32589 *	NAS 1.71:NPO-15560-1	c 33	N85-21491 *	NAS 1.71:NPO-18075-1-CU	c 33	N91-13622 *
NAS 1.71:MFS-28161-1	c 37	N87-18817 *	NAS 1.71:NPO-15644-1	c 35	N84-33767 *	NAS 1.71:NPO-18101-1-CU	c 74	N91-13995 *
NAS 1.71:MFS-28183-1	c 74	N89-13253 *	NAS 1.71:NPO-15651-1	c 43	N85-21723 *	NAS 1.71:SSC-00006-1	c 35	N91-13691 *
NAS 1.71:MFS-28248-1	c 31	N88-24817 *	NAS 1.71:NPO-15753-1	c 27	N84-33589 *	NAS 1.71:SSC-00008-1	c 37	N91-13733 *
NAS 1.71:MFS-28273-1	c 37	N88-23974 *	NAS 1.71:NPO-15759-1	c 35	N85-21596 *	NAS 1.71:WLP-10055-2	c 35	N85-21598 *
NAS 1.71:MFS-28282-1	c 76	N88-29602 *	NAS 1.71:NPO-15790-1	c 36	N85-21631 *			
NAS 1.71:MFS-28287-1	c 35	N88-23959 *	NAS 1.71:NPO-15801-1	c 74	N85-23396 *	NASA-CASE-ARC-10003-1	c 09	N71-25866 *
NAS 1.71:MFS-28295-1	c 74	N91-13999 *	NAS 1.71:NPO-15808-1	c 44	N84-34792 *	NASA-CASE-ARC-10009-1	c 15	N71-17822 *
NAS 1.71:MFS-28327-1	c 18	N89-28556 *	NAS 1.71:NPO-15851-1	c 37	N85-21652 *	NASA-CASE-ARC-10017-1	c 14	N72-29464 *
NAS 1.71:MFS-28328-1	c 37	N91-13731 *	NAS 1.71:NPO-15920-1	c 33	N85-21493 *	NASA-CASE-ARC-10020	c 10	N72-17172 *
NAS 1.71:MFS-28345-2	c 37	N89-28842 *	NAS 1.71:NPO-16022-1	c 71	N85-22105 *	NASA-CASE-ARC-10030	c 09	N71-12521 *
NAS 1.71:MFS-28368-1	c 75	N90-10717 *	NAS 1.71:NPO-16027-1	c 35	N85-21597 *	NASA-CASE-ARC-10042-2	c 10	N72-11256 *
NAS 1.71:MFS-28370-1	c 35	N89-28793 *	NAS 1.71:NPO-16233-1	c 37	N86-20801 *	NASA-CASE-ARC-10043-1	c 05	N71-11193 *
NAS 1.71:MFS-28376-1	c 14	N89-28546 *	NAS 1.71:NPO-16420-1	c 33	N86-20681 *	NASA-CASE-ARC-10050	c 03	N71-33409 *
NAS 1.71:MFS-28384-1	c 37	N90-27112 *	NAS 1.71:NPO-16464-1-CU	c 60	N86-24224 *	NASA-CASE-ARC-10097-2	c 07	N73-25160 *
NAS 1.71:MFS-28390-1	c 24	N91-15333 *	NAS 1.71:NPO-16494-1-CU	c 34	N85-29182 *	NASA-CASE-ARC-10098-1	c 06	N71-24739 *
NAS 1.71:MFS-28406-1	c 37	N91-13729 *	NAS 1.71:NPO-16584-1-CU	c 76	N86-25269 *	NASA-CASE-ARC-10099-1	c 18	N71-15469 *
NAS 1.71:MFS-28419-1	c 18	N91-13482 *	NAS 1.71:NPO-16632-1-CU	c 32	N87-15390 *	NASA-CASE-ARC-10100-1	c 05	N71-24738 *
NAS 1.71:MFS-28420-1	c 37	N90-27113 *	NAS 1.71:NPO-16784-1	c 33	N87-10231 *	NASA-CASE-ARC-10101-1	c 09	N71-33109 *
NAS 1.71:MFS-28421-1	c 18	N90-26861 *	NAS 1.71:NPO-16869	c 74	N86-33138 *	NASA-CASE-ARC-10105	c 09	N72-17153 *
NAS 1.71:MFS-28422-1	c 29	N91-17250 *	NAS 1.71:NPO-16882-1-CU	c 33	N88-24863 *	NASA-CASE-ARC-10106-1	c 28	N72-22769 *
NAS 1.71:MFS-28425-1	c 35	N90-26304 *	NAS 1.71:NPO-16892-1-CU	c 37	N87-14704 *	NASA-CASE-ARC-10131-1	c 15	N71-27754 *
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NAS 1.71:MFS-29291-1	c 37	N89-12868 *	NAS 1.71:NPO-17024-1-CU	c 35	N88-24943 *	NASA-CASE-ARC-10136-1	c 09	N72-22202 *
NAS 1.71:MFS-29491-1	c 31	N89-23738 *	NAS 1.71:NPO-17134-1-CU	c 33	N88-24864 *	NASA-CASE-ARC-10137-1	c 09	N71-28468 *
NAS 1.71:MFS-29576-1	c 25	N91-15368 *	NAS 1.71:NPO-17139-1-CU	c 74	N88-25301 *	NASA-CASE-ARC-10138-1	c 14	N72-24477 *
NAS 1.71:MSC-18578-1	c 32	N85-21427 *	NAS 1.71:NPO-17144-1-CU	c 74	N88-25305 *	NASA-CASE-ARC-10140-1	c 15	N71-17653 *
NAS 1.71:MSC-20112-1	c 37	N85-20338 *	NAS 1.71:NPO-17184-1-CU	c 32	N88-26541 *	NASA-CASE-ARC-10153	c 05	N71-28619 *
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NAS 1.71:MSC-20319-1	c 37	N85-21649 *	NAS 1.71:NPO-17204-1-CU	c 34	N90-26292 *	NASA-CASE-ARC-10160-1	c 23	N72-27728 *
NAS 1.71:MSC-20761-1	c 37	N87-15465 *	NAS 1.71:NPO-17207-1-CU	c 74	N88-25304 *	NASA-CASE-ARC-10176-1	c 15	N72-21464 *
NAS 1.71:MSC-20783-1	c 35	N86-20756 *	NAS 1.71:NPO-17233-1-CU	c 33	N88-29095 *	NASA-CASE-ARC-10178-1	c 09	N72-17152 *
NAS 1.71:MSC-20865-1	c 32	N87-18692 *	NAS 1.71:NPO-17275-1-CU	c 37	N89-29750 *	NASA-CASE-ARC-10179-1	c 21	N72-22619 *
NAS 1.71:MSC-20907-1	c 37	N87-18818 *	NAS 1.71:NPO-17291-1-CU	c 34	N88-23946 *	NASA-CASE-ARC-10180-1	c 27	N74-12814 *
NAS 1.71:MSC-20964-1	c 60	N87-14863 *	NAS 1.71:NPO-17310-1-CU	c 17	N88-26946 *	NASA-CASE-ARC-10192	c 09	N72-21245 *
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NAS 1.71:MSC-21095-1	c 37	N89-12866 *	NAS 1.71:NPO-17399-1-CU	c 76	N89-14120 *	NASA-CASE-ARC-10197-1	c 33	N74-17929 *
NAS 1.71:MSC-21171-1	c 37	N88-23973 *	NAS 1.71:NPO-17426-1-CU	c 33	N89-10329 *	NASA-CASE-ARC-10198	c 34	N78-17336 *
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NASA-CASE-ARC-10302-1	c 51	N74-15778 *	NASA-CASE-ARC-10979-1	c 09	N77-19076 *	NASA-CASE-ARC-11418-1	c 24	N84-11213 *
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NASA-CASE-ARC-10322-1	c 35	N76-18403 *	NASA-CASE-ARC-10985-1	c 52	N78-10724 *	NASA-CASE-ARC-11423-1	c 03	N84-33394 *
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NASA-CASE-ARC-10592-1	c 27	N74-21156 *	NASA-CASE-ARC-11114-1	c 51	N81-14605 *	NASA-CASE-ARC-11538-1SB	c 24	N86-21590 *
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NASA-CASE-ERC-10174	c 14	N72-25409 *	NASA-CASE-GSC-10087-1	c 02	N71-19287 *	NASA-CASE-GSC-11215-1	c 09	N73-28083 *	
NASA-CASE-ERC-10178	c 16	N71-24832 *	NASA-CASE-GSC-10087-2	c 21	N71-13958 *	NASA-CASE-GSC-11222-1	c 16	N73-32391 *	
NASA-CASE-ERC-10179	c 07	N72-20141 *	NASA-CASE-GSC-10087-3	c 07	N72-12080 *	NASA-CASE-GSC-11239-1	c 10	N73-25241 *	
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NASA-CASE-ERC-10208	c 15	N70-10867 *	NASA-CASE-GSC-10114-1	c 10	N71-27366 *	NASA-CASE-GSC-11296-1	c 23	N73-30666 *	
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NASA-CASE-FRC-10012	c 14	N72-17329 *	NASA-CASE-GSC-10557-1	c 31	N71-26537 *	NASA-CASE-GSC-11617-1	c 33	N74-32660 *	
NASA-CASE-FRC-10019	c 15	N73-12487 *	NASA-CASE-GSC-10564	c 10	N71-29135 *	NASA-CASE-GSC-11619-1	c 34	N75-12222 *	
NASA-CASE-FRC-10022	c 12	N71-26546 *	NASA-CASE-GSC-10565-1	c 06	N72-25149 *	NASA-CASE-GSC-11620-1	c 34	N74-23039 *	
NASA-CASE-FRC-10029-2	c 05	N72-25121 *	NASA-CASE-GSC-10566-1	c 15	N72-18477 *	NASA-CASE-GSC-11623-1	c 33	N75-25040 *	
NASA-CASE-FRC-10029	c 09	N71-24618 *	NASA-CASE-GSC-10590-1	c 31	N73-14853 *	NASA-CASE-GSC-11743-1	c 32	N75-24981 *	
NASA-CASE-FRC-10036	c 09	N72-22200 *	NASA-CASE-GSC-10607-1	c 15	N72-20442 *	NASA-CASE-GSC-11744-1	c 33	N75-26243 *	
NASA-CASE-FRC-10038	c 15	N72-20444 *	NASA-CASE-GSC-10614-1	c 09	N72-11224 *	NASA-CASE-GSC-11746-1	c 36	N75-19654 *	
NASA-CASE-FRC-10049-1	c 04	N74-13420 *	NASA-CASE-GSC-10640-1	c 28	N72-18766 *	NASA-CASE-GSC-11752-1	c 77	N75-20140 *	
NASA-CASE-FRC-10051-1	c 35	N74-13129 *	NASA-CASE-GSC-10656-1	c 09	N72-25249 *	NASA-CASE-GSC-11760-1	c 33	N75-19516 *	
NASA-CASE-FRC-10053	c 14	N70-35587 *	NASA-CASE-GSC-10667-1	c 10	N71-33129 *	NASA-CASE-GSC-11782-1	c 74	N76-30053 *	
NASA-CASE-FRC-10060-1	c 14	N73-27379 *	NASA-CASE-GSC-10668-1	c 07	N71-28430 *	NASA-CASE-GSC-11783-1	c 33	N75-19516 *	
NASA-CASE-FRC-10063	c 01	N71-12217 *	NASA-CASE-GSC-10669-1	c 03	N72-20031 *	NASA-CASE-GSC-11786-1	c 24	N76-24363 *	
NASA-CASE-FRC-10071-1	c 32	N74-20813 *	NASA-CASE-GSC-10695-1	c 09	N72-25259 *	NASA-CASE-GSC-11789-1	c 33	N77-14333 *	
NASA-CASE-FRC-10072-1	c 33	N74-14939 *	NASA-CASE-GSC-10700	c 23	N71-30027 *	NASA-CASE-GSC-11824-1	c 33	N77-26386 *	
NASA-CASE-FRC-10081-1	c 37	N77-14477 *	NASA-CASE-GSC-10709-1	c 28	N71-25213 *	NASA-CASE-GSC-11829-1	c 35	N75-27331 *	
NASA-CASE-FRC-10090-1	c 33	N78-18308 *	NASA-CASE-GSC-10710-1	c 28	N71-27094 *	NASA-CASE-GSC-11839-1	c 60	N77-14751 *	
NASA-CASE-FRC-10092-1	c 05	N79-12061 *	NASA-CASE-GSC-10735-1	c 10	N71-26085 *	NASA-CASE-GSC-11839-2	c 60	N78-10709 *	
NASA-CASE-FRC-10093-1	c 35	N80-20560 *	NASA-CASE-GSC-10780-1	c 14	N72-16283 *	NASA-CASE-GSC-11839-3	c 60	N77-32731 *	
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NASA-CASE-FRC-11005-1	c 06	N82-16075 *	NASA-CASE-GSC-10878-1	c 10	N72-22236 *	NASA-CASE-GSC-11877-1	c 74	N76-18913 *	
NASA-CASE-FRC-11007-2	c 05	N82-26277 *	NASA-CASE-GSC-10879-1	c 14	N72-25413 *	NASA-CASE-GSC-11883-1	c 37	N77-19458 *	
NASA-CASE-FRC-11009-1	c 06	N80-18036 *	NASA-CASE-GSC-10880-1	c 08	N72-11172 *	NASA-CASE-GSC-11883-2	c 37	N78-31426 *	
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NASA-CASE-FRC-11013-1	c 43	N81-17499 *	NASA-CASE-GSC-10891-1	c 10	N71-26626 *	NASA-CASE-GSC-11892-1	c 35	N76-15433 *	
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NASA-CASE-FRC-11042-1	c 60	N82-24839 *	NASA-CASE-GSC-10990-1	c 09	N73-26195 *	NASA-CASE-GSC-11924-1	c 33	N76-27472 *	
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NASA-CASE-FRC-11062-1	c 71	N82-16800 *	NASA-CASE-GSC-11077-1	c 02	N73-13080 *	NASA-CASE-GSC-11975-1	c 37	N77-19458 *	
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			NASA-CASE-GSC-11126-1	c 09	N72-25253 *	NASA-CASE-GSC-11998-1	c 34	N77-32413 *	
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NASA-CASE-GSC-12053-1	c 32	N77-28346 *	NASA-CASE-GSC-12682-1	c 35	N84-33765 *	NASA-CASE-KSC-10108	c 14	N73-25461 *
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NASA-CASE-GSC-12081-2	c 52	N82-22875 *	NASA-CASE-GSC-12756-1	c 74	N84-23248 *	NASA-CASE-KSC-10242	c 15	N72-23497 *
NASA-CASE-GSC-12082-1	c 54	N76-22914 *	NASA-CASE-GSC-12761-1	c 74	N86-32266 *	NASA-CASE-KSC-10278	c 05	N72-16015 *
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NASA-CASE-GSC-12083-1	c 73	N78-32848 *	NASA-CASE-GSC-12770-1	c 25	N83-29324 *	NASA-CASE-KSC-10326	c 08	N72-21197 *
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NASA-CASE-GSC-12145-1	c 33	N78-32339 *	NASA-CASE-GSC-12804-1	c 33	N86-20668 *	NASA-CASE-KSC-10615	c 15	N73-12486 *
NASA-CASE-GSC-12146-1	c 33	N78-32340 *	NASA-CASE-GSC-12808-1	c 25	N85-21279 *	NASA-CASE-KSC-10622-1	c 31	N72-21893 *
NASA-CASE-GSC-12147-1	c 32	N81-27341 *	NASA-CASE-GSC-12812-1	c 34	N83-35307 *	NASA-CASE-KSC-10626	c 14	N73-27378 *
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NASA-CASE-GSC-12303-1	c 24	N79-31347 *	NASA-CASE-GSC-13112-1	c 31	N89-29578 *	NASA-CASE-KSC-11023-1	c 32	N79-23310 *
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NASA-CASE-GSC-12399-1	c 33	N81-25299 *				NASA-CASE-KSC-11069-1	c 52	N79-26772 *
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NASA-CASE-GSC-12447-2	c 60	N84-28491 *	NASA-CASE-HQN-10274-1	c 27	N82-29451 *	NASA-CASE-KSC-11170-1	c 33	N83-36356 *
NASA-CASE-GSC-12508-1	c 04	N84-22546 *	NASA-CASE-HQN-10328-2	c 27	N82-29454 *	NASA-CASE-KSC-11218-1	c 09	N85-19990 *
NASA-CASE-GSC-12513-1	c 31	N81-19343 *	NASA-CASE-HQN-10364	c 06	N71-27363 *	NASA-CASE-KSC-11282-1	c 85	N87-21755 *
NASA-CASE-GSC-12515-1	c 33	N81-26360 *	NASA-CASE-HQN-10439	c 21	N72-21624 *	NASA-CASE-KSC-11285-1	c 32	N86-27513 *
NASA-CASE-GSC-12517-1	c 37	N83-32067 *	NASA-CASE-HQN-10462	c 25	N75-29192 *	NASA-CASE-KSC-11304-2	c 28	N91-14495 *
NASA-CASE-GSC-12518-1	c 33	N82-24421 *	NASA-CASE-HQN-10537-1	c 06	N72-10138 *	NASA-CASE-KSC-11322-1	c 54	N89-29953 *
NASA-CASE-GSC-12528-1	c 74	N81-24900 *	NASA-CASE-HQN-10541-1	c 07	N71-26291 *	NASA-CASE-KSC-11368-1	c 37	N89-13786 *
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NASA-CASE-GSC-12551-1	c 18	N83-28064 *	NASA-CASE-HQN-10541-3	c 23	N72-23695 *	NASA-CASE-KSC-11387-1	c 29	N90-20236 *
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NASA-CASE-GSC-12565-1	c 36	N84-14509 *	NASA-CASE-HQN-10654-1	c 16	N73-13489 *	NASA-CASE-LAR-10007-1	c 05	N71-11195 *
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NASA-CASE-GSC-12609-1	c 36	N81-22344 *	NASA-CASE-HQN-10832-1	c 71	N74-21014 *	NASA-CASE-LAR-10102-1	c 05	N72-23085 *
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NASA-CASE-LAR-10121-1	c 15	N71-26721 *	NASA-CASE-LAR-10753-1	c 08	N74-30421 *	NASA-CASE-LAR-11726-1	c 37	N76-27568 *
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NASA-CASE-LAR-10129-2	c 37	N74-20063 *	NASA-CASE-LAR-10773-3	c 51	N77-25769 *	NASA-CASE-LAR-11782-1	c 74	N77-20882 *
NASA-CASE-LAR-10135-1	c 09	N79-21083 *	NASA-CASE-LAR-10774	c 10	N71-13545 *	NASA-CASE-LAR-11797-1	c 05	N81-19087 *
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NASA-CASE-LAR-10168-1	c 33	N74-22865 *	NASA-CASE-LAR-10782-2	c 31	N75-13111 *	NASA-CASE-LAR-11827-1	c 32	N77-10392 *
NASA-CASE-LAR-10170-1	c 37	N74-11301 *	NASA-CASE-LAR-10799-2	c 34	N76-17317 *	NASA-CASE-LAR-11828-1	c 27	N78-32261 *
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NASA-CASE-LAR-10176-1	c 14	N72-20380 *	NASA-CASE-LAR-10805-2	c 34	N77-18382 *	NASA-CASE-LAR-11859-1	c 35	N79-14349 *
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NASA-CASE-LAR-10184	c 14	N72-22445 *	NASA-CASE-LAR-10812-1	c 09	N74-17955 *	NASA-CASE-LAR-11869-1	c 74	N78-27904 *
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NASA-CASE-LAR-10203-1	c 15	N72-16330 *	NASA-CASE-LAR-10855-1	c 14	N73-13415 *	NASA-CASE-LAR-11898-1	c 24	N78-10214 *
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NASA-CASE-LAR-10241-1	c 54	N74-14845 *	NASA-CASE-LAR-10907-1	c 35	N76-29551 *	NASA-CASE-LAR-11919-1	c 07	N78-27121 *
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NASA-CASE-LAR-10253-1	c 09	N72-25258 *	NASA-CASE-LAR-10913	c 14	N72-16282 *	NASA-CASE-LAR-11932-1	c 05	N78-32086 *
NASA-CASE-LAR-10256-1	c 85	N74-34672 *	NASA-CASE-LAR-10941-1	c 37	N74-21057 *	NASA-CASE-LAR-11970-2	c 08	N81-19130 *
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NASA-CASE-LAR-10274-1	c 14	N71-17626 *	NASA-CASE-LAR-10953-1	c 17	N73-27446 *	NASA-CASE-LAR-11995-1	c 28	N77-10213 *
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NASA-CASE-LAR-10294-1	c 26	N72-28762 *	NASA-CASE-LAR-10994-1	c 24	N75-13032 *	NASA-CASE-LAR-12007-3	c 35	N84-16523 *
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NASA-CASE-LAR-10323-1	c 12	N71-17573 *	NASA-CASE-LAR-11074-1	c 51	N75-13502 *	NASA-CASE-LAR-12054-1	c 27	N79-33316 *
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NASA-CASE-LAR-10365-1	c 05	N72-27102 *	NASA-CASE-LAR-11138	c 12	N71-20436 *	NASA-CASE-LAR-12065-2	c 24	N81-33235 *
NASA-CASE-LAR-10372	c 09	N71-18599 *	NASA-CASE-LAR-11139-1	c 35	N74-32878 *	NASA-CASE-LAR-12077-1	c 31	N81-25259 *
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NASA-CASE-LAR-10385-3	c 74	N78-15879 *	NASA-CASE-LAR-11155-1	c 35	N74-15091 *	NASA-CASE-LAR-12106-1	c 71	N78-14867 *
NASA-CASE-LAR-10403	c 21	N71-11766 *	NASA-CASE-LAR-11173-1	c 35	N75-19614 *	NASA-CASE-LAR-12147-1	c 31	N79-11246 *
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NASA-CASE-LAR-10416-1	c 24	N74-30001 *	NASA-CASE-LAR-11207-1	c 35	N75-19613 *	NASA-CASE-LAR-12149-2	c 09	N79-31228 *
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NASA-CASE-LAR-10612-1	c 12	N73-28144 *	NASA-CASE-LAR-11552-1	c 35	N76-14429 *	NASA-CASE-LAR-12363-1	c 35	N82-31659 *
NASA-CASE-LAR-10620-1	c 09	N72-25255 *	NASA-CASE-LAR-11563-1	c 37	N77-23482 *	NASA-CASE-LAR-12363-2	c 33	N83-24763 *
NASA-CASE-LAR-10623-1	c 14	N73-30395 *	NASA-CASE-LAR-11570-1	c 34	N76-18364 *	NASA-CASE-LAR-12372-1	c 37	N82-18601 *
NASA-CASE-LAR-10626-1	c 19	N74-21015 *	NASA-CASE-LAR-11575-1	c 02	N76-16014 *	NASA-CASE-LAR-12375-1	c 32	N79-24203 *
NASA-CASE-LAR-10629-1	c 35	N75-33367 *	NASA-CASE-LAR-11607-1	c 32	N77-14292 *	NASA-CASE-LAR-12393-1	c 34	N83-34221 *
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NASA-CASE-LAR-10682-1	c 02	N73-26004 *	NASA-CASE-LAR-11667-1	c 52	N76-19785 *	NASA-CASE-LAR-12465-1	c 33	N82-26572 *
NASA-CASE-LAR-10686	c 14	N71-28935 *	NASA-CASE-LAR-11674-1	c 07	N78-18117 *	NASA-CASE-LAR-12468-1	c 08	N82-32373 *
NASA-CASE-LAR-10688-1	c 37	N74-21056 *	NASA-CASE-LAR-11675-1	c 45	N76-17656 *	NASA-CASE-LAR-12469-1	c 35	N83-21311 *
NASA-CASE-LAR-10717-1	c 21	N73-30641 *	NASA-CASE-LAR-11688-1	c 24	N82-26384 *	NASA-CASE-LAR-12471-1	c 52	N82-29862 *
NASA-CASE-LAR-10726-1	c 14	N73-20475 *	NASA-CASE-LAR-11690-1	c 35	N80-14371 *	NASA-CASE-LAR-12474-1	c 35	N82-26628 *
NASA-CASE-LAR-10728-1	c 14	N73-12445 *	NASA-CASE-LAR-11695-2	c 37	N81-24443 *	NASA-CASE-LAR-12482-1	c 37	N82-32732 *
NASA-CASE-LAR-10730-1	c 33	N74-10223 *	NASA-CASE-LAR-11709-1	c 37	N76-27567 *	NASA-CASE-LAR-12495-1	c 44	N83-28573 *

NASA-CASE-LAR-12513-1	c 44	N82-32841 *	NASA-CASE-LAR-13153-1	c 71	N86-21276 *	NASA-CASE-LAR-13734-1-CU	c 09	N90-20096 *
NASA-CASE-LAR-12518-1	c 06	N86-27280 *	NASA-CASE-LAR-13155-1	c 05	N86-19310 *	NASA-CASE-LAR-13738-1	c 18	N87-29586 *
NASA-CASE-LAR-12520-1	c 51	N81-28698 *	NASA-CASE-LAR-13169-1	c 37	N86-25791 *	NASA-CASE-LAR-13740-1	c 35	N90-22770 *
NASA-CASE-LAR-12531-1	c 35	N83-29651 *	NASA-CASE-LAR-13173-1	c 05	N87-14314 *	NASA-CASE-LAR-13741-1-SB	c 25	N90-20180 *
NASA-CASE-LAR-12532-1	c 09	N82-11088 *	NASA-CASE-LAR-13181-1	c 31	N85-29083 *	NASA-CASE-LAR-13742-1	c 02	N91-16999 *
NASA-CASE-LAR-12541-1	c 05	N84-22551 *	NASA-CASE-LAR-13198-1	c 37	N87-23983 *	NASA-CASE-LAR-13747-1-CU	c 32	N89-28672 *
NASA-CASE-LAR-12552-1	c 35	N82-11431 *	NASA-CASE-LAR-13202-1	c 33	N88-23942 *	NASA-CASE-LAR-13761-1	c 34	N90-20323 *
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NASA-CASE-LAR-12602-1	c 39	N83-32081 *	NASA-CASE-LAR-13226-1	c 27	N85-34282 *	NASA-CASE-LAR-13777-1	c 05	N90-20078 *
NASA-CASE-LAR-12615-1	c 05	N84-12154 *	NASA-CASE-LAR-13230-1	c 24	N84-34571 *	NASA-CASE-LAR-13780-1	c 18	N91-13481 *
NASA-CASE-LAR-12620-1	c 24	N82-32417 *	NASA-CASE-LAR-13233-1	c 05	N84-33400 *	NASA-CASE-LAR-13785-1	c 70	N90-17403 *
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NASA-CASE-LAR-12633-1	c 33	N82-24416 *	NASA-CASE-LAR-13254-1-CU	c 35	N86-29174 *	NASA-CASE-LAR-13816-1	c 35	N90-22025 *
NASA-CASE-LAR-12638-1	c 04	N84-14132 *	NASA-CASE-LAR-13255-1	c 02	N87-16793 *	NASA-CASE-LAR-13817-1	c 26	N90-21170 *
NASA-CASE-LAR-12640-1	c 27	N82-11206 *	NASA-CASE-LAR-13256-1	c 36	N86-29204 *	NASA-CASE-LAR-13821-1	c 27	N90-16950 *
NASA-CASE-LAR-12642-1	c 27	N81-29229 *	NASA-CASE-LAR-13257-1	c 25	N84-33240 *	NASA-CASE-LAR-13826-1	c 35	N88-29150 *
NASA-CASE-LAR-12644-1	c 37	N84-28084 *	NASA-CASE-LAR-13262-1	c 23	N85-28973 *	NASA-CASE-LAR-13853-1	c 35	N89-14423 *
NASA-CASE-LAR-12650-1	c 52	N84-28388 *	NASA-CASE-LAR-13268-1	c 35	N87-14669 *	NASA-CASE-LAR-13854-1-CU	c 04	N88-24621 *
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NASA-CASE-LAR-12654-1	c 33	N83-36357 *	NASA-CASE-LAR-13280-1	c 08	N87-20999 *	NASA-CASE-LAR-13870-1	c 05	N90-15094 *
NASA-CASE-LAR-12659-1	c 33	N82-26570 *	NASA-CASE-LAR-13286-1	c 02	N88-14071 *	NASA-CASE-LAR-13875-1	c 05	N89-14233 *
NASA-CASE-LAR-12686-1	c 35	N84-14491 *	NASA-CASE-LAR-13292-1	c 27	N86-24841 *	NASA-CASE-LAR-13889-1	c 39	N88-30160 *
NASA-CASE-LAR-12705-1	c 25	N82-26396 *	NASA-CASE-LAR-13294-1	c 35	N86-32696 *	NASA-CASE-LAR-13898-1	c 37	N91-15544 *
NASA-CASE-LAR-12706-1	c 35	N84-12444 *	NASA-CASE-LAR-13300-1-CU	c 35	N89-14407 *	NASA-CASE-LAR-13901-1-NP	c 52	N90-21519 *
NASA-CASE-LAR-12709-1	c 35	N82-28604 *	NASA-CASE-LAR-13306-1	c 82	N87-29372 *	NASA-CASE-LAR-13902-1	c 27	N90-23546 *
NASA-CASE-LAR-12719-1	c 44	N83-34449 *	NASA-CASE-LAR-13310-1	c 32	N87-14559 *	NASA-CASE-LAR-13924-1-CU	c 26	N89-28621 *
NASA-CASE-LAR-12720-1	c 44	N83-21504 *	NASA-CASE-LAR-13316-1	c 27	N86-27450 *	NASA-CASE-LAR-13925-1	c 27	N89-25334 *
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NASA-CASE-LAR-12723-2	c 27	N84-22746 *	NASA-CASE-LAR-13318-1	c 27	N87-14516 *	NASA-CASE-LAR-13952-1-SB	c 34	N90-19534 *
NASA-CASE-LAR-12728-1	c 35	N83-32026 *	NASA-CASE-LAR-13351-1	c 27	N86-31727 *	NASA-CASE-LAR-13963-1	c 76	N90-24150 *
NASA-CASE-LAR-12738-2	c 37	N85-30335 *	NASA-CASE-LAR-13353-1	c 27	N86-29039 *	NASA-CASE-LAR-13965-1-CU	c 23	N90-21118 *
NASA-CASE-LAR-12743-1	c 35	N84-28019 *	NASA-CASE-LAR-13384-1	c 27	N86-20561 *	NASA-CASE-LAR-13965-2-CU	c 23	N91-14418 *
NASA-CASE-LAR-12751-1	c 15	N84-16231 *	NASA-CASE-LAR-13387-1	c 74	N88-25302 *	NASA-CASE-LAR-13966-1	c 71	N90-17408 *
NASA-CASE-LAR-12772-1	c 33	N83-16626 *	NASA-CASE-LAR-13392-1-CU	c 19	N91-14412 *	NASA-CASE-LAR-13968-1	c 71	N90-15710 *
NASA-CASE-LAR-12775-1	c 27	N83-28240 *	NASA-CASE-LAR-13393-1	c 54	N87-29118 *	NASA-CASE-LAR-13981-1	c 37	N90-15442 *
NASA-CASE-LAR-12775-2	c 27	N85-21349 *	NASA-CASE-LAR-13407-1	c 33	N87-28831 *	NASA-CASE-LAR-13983-1	c 05	N90-23390 *
NASA-CASE-LAR-12785-1	c 37	N84-16561 *	NASA-CASE-LAR-13411-1-SB	c 18	N88-23828 *	NASA-CASE-LAR-13985-1	c 24	N91-14430 *
NASA-CASE-LAR-12786-1	c 37	N84-28085 *	NASA-CASE-LAR-13434-1	c 37	N90-23742 *	NASA-CASE-LAR-13988-1	c 23	N89-11814 *
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NASA-CASE-LAR-12801-1	c 37	N88-23982 *	NASA-CASE-LAR-13436-1-CU	c 02	N88-23759 *	NASA-CASE-LAR-13992-1-CU	c 23	N89-13496 *
NASA-CASE-LAR-12807-1	c 24	N84-11214 *	NASA-CASE-LAR-13438-1	c 31	N89-12786 *	NASA-CASE-LAR-13996-1-SB	c 25	N90-15161 *
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NASA-CASE-LAR-12884-1	c 18	N84-33450 *	NASA-CASE-LAR-13476-1-CU	c 76	N87-29360 *	NASA-CASE-LAR-14142-1	c 37	N90-27116 *
NASA-CASE-LAR-12887-3	c 24	N90-21822 *	NASA-CASE-LAR-13486-1	c 16	N90-22584 *	NASA-CASE-LAR-14145-1	c 27	N90-26954 *
NASA-CASE-LAR-12893-1	c 76	N85-30923 *	NASA-CASE-LAR-13489-1	c 18	N87-27713 *	NASA-CASE-LAR-14149-1-SB	c 14	N89-28547 *
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NASA-CASE-LAR-12923-1	c 37	N84-12493 *	NASA-CASE-LAR-13506-1	c 27	N89-12741 *	NASA-CASE-LAR-14156-1	c 16	N90-16781 *
NASA-CASE-LAR-12931-1	c 27	N84-22747 *	NASA-CASE-LAR-13508-1	c 35	N88-23962 *	NASA-CASE-LAR-14159-1-CU	c 27	N90-26953 *
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NASA-CASE-LAR-12950-1	c 09	N84-34448 *	NASA-CASE-LAR-13512-1	c 35	N87-28884 *	NASA-CASE-LAR-14163-1	c 27	N91-13559 *
NASA-CASE-LAR-12958-1	c 44	N84-23019 *	NASA-CASE-LAR-13519-1	c 35	N88-23963 *	NASA-CASE-LAR-14188-1	c 27	N90-23545 *
NASA-CASE-LAR-12966-1	c 35	N85-30282 *	NASA-CASE-LAR-13522-1-SB	c 09	N87-25334 *	NASA-CASE-LAR-14188-2	c 23	N91-14419 *
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NASA-CASE-LAR-12968-1	c 60	N86-21154 *	NASA-CASE-LAR-13532-1	c 34	N91-14562 *	NASA-CASE-LAR-14198-1	c 27	N90-26956 *
NASA-CASE-LAR-12971-1	c 47	N84-28292 *	NASA-CASE-LAR-13542-2-SB	c 25	N90-20154 *	NASA-CASE-LAR-14203-1	c 36	N89-28817 *
NASA-CASE-LAR-12979-1	c 05	N85-21147 *	NASA-CASE-LAR-13552-1-CU	c 33	N89-14385 *	NASA-CASE-LAR-14207-1	c 35	N91-14590 *
NASA-CASE-LAR-12980-1	c 27	N84-22749 *	NASA-CASE-LAR-13554-1	c 02	N89-12551 *	NASA-CASE-LAR-14239-1	c 26	N91-13527 *
NASA-CASE-LAR-12984-1	c 06	N87-22678 *	NASA-CASE-LAR-13555-1	c 23	N86-32526 *	NASA-CASE-LAR-14250-1-SB	c 72	N90-27472 *
NASA-CASE-LAR-12995-1	c 35	N84-22933 *	NASA-CASE-LAR-13562-1	c 24	N90-25196 *	NASA-CASE-LAR-14271-1-CU	c 27	N91-13558 *
NASA-CASE-LAR-13006-1	c 17	N87-16863 *	NASA-CASE-LAR-13564-1	c 35	N87-25558 *	NASA-CASE-LAR-14322-1	c 02	N91-15138 *
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NASA-CASE-LAR-13098-1	c 31	N86-19479 *	NASA-CASE-LAR-13662-1	c 37	N88-14359 *			
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NASA-CASE-LAR-13150-1	c 24	N87-27742 *	NASA-CASE-LAR-13724-1	c 38	N90-23756 *	NASA-CASE-LEW-10278-1	c 15	N71-28582 *
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NASA-CASE-LEW-10327	c 17	N71-33408 *	NASA-CASE-LEW-11696-2	c 26	N75-19408 *	NASA-CASE-LEW-12590-1	c 37	N84-22958 *
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NASA-CASE-LEW-10359	c 33	N72-25911 *	NASA-CASE-LEW-11866-1	c 72	N76-15860 *	NASA-CASE-LEW-12649-1	c 44	N78-25530 *
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NASA-CASE-LEW-10374-1	c 28	N73-13773 *	NASA-CASE-LEW-11876-1	c 20	N76-21276 *	NASA-CASE-LEW-12661-1	c 35	N79-14345 *
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NASA-CASE-LEW-10393-1	c 17	N71-15468 *	NASA-CASE-LEW-11881-1	c 33	N77-17354 *	NASA-CASE-LEW-12718-1	c 34	N78-25351 *
NASA-CASE-LEW-10424-2-2	c 18	N72-25539 *	NASA-CASE-LEW-11890-1	c 05	N79-24976 *	NASA-CASE-LEW-12723-1	c 52	N80-18690 *
NASA-CASE-LEW-10439-1	c 09	N72-22197 *	NASA-CASE-LEW-11915-1	c 35	N76-14431 *	NASA-CASE-LEW-12760-1	c 07	N77-17059 *
NASA-CASE-LEW-10436-1	c 17	N73-32415 *	NASA-CASE-LEW-11925-1	c 37	N75-31446 *	NASA-CASE-LEW-12775-1	c 44	N79-11468 *
NASA-CASE-LEW-10450-1	c 15	N72-25448 *	NASA-CASE-LEW-11930-1	c 24	N76-22309 *	NASA-CASE-LEW-12780-1	c 20	N79-20179 *
NASA-CASE-LEW-10489-1	c 15	N72-25447 *	NASA-CASE-LEW-11930-3	c 24	N80-33482 *	NASA-CASE-LEW-12785-1	c 37	N78-24545 *
NASA-CASE-LEW-10518-1	c 24	N72-33681 *	NASA-CASE-LEW-11930-4	c 24	N79-17916 *	NASA-CASE-LEW-12791-1	c 33	N78-32341 *
NASA-CASE-LEW-10518-3	c 25	N78-27226 *	NASA-CASE-LEW-11938-1	c 33	N76-15373 *	NASA-CASE-LEW-12793-1	c 37	N79-11403 *
NASA-CASE-LEW-10533-1	c 15	N73-28515 *	NASA-CASE-LEW-11949-1	c 37	N76-29588 *	NASA-CASE-LEW-12806-2	c 44	N81-12542 *
NASA-CASE-LEW-10533-2	c 37	N74-11300 *	NASA-CASE-LEW-11978-1	c 33	N77-26385 *	NASA-CASE-LEW-12819-1	c 44	N79-11467 *
NASA-CASE-LEW-10689-1	c 28	N71-26173 *	NASA-CASE-LEW-11981-1	c 31	N78-17237 *	NASA-CASE-LEW-12819-2	c 44	N79-18444 *
NASA-CASE-LEW-10698-1	c 37	N74-21063 *	NASA-CASE-LEW-11981-2	c 34	N79-20336 *	NASA-CASE-LEW-12830-1	c 07	N77-23106 *
NASA-CASE-LEW-10770-1	c 28	N72-22770 *	NASA-CASE-LEW-12013-1	c 33	N79-10339 *	NASA-CASE-LEW-12876-2	c 27	N83-29392 *
NASA-CASE-LEW-10794-1	c 06	N72-17093 *	NASA-CASE-LEW-12039-1	c 44	N78-14625 *	NASA-CASE-LEW-12892-1	c 44	N83-14692 *
NASA-CASE-LEW-10805-1	c 15	N73-13465 *	NASA-CASE-LEW-12048-1	c 20	N77-20162 *	NASA-CASE-LEW-12905-1	c 26	N78-18183 *
NASA-CASE-LEW-10805-2	c 37	N74-13179 *	NASA-CASE-LEW-12050-1	c 35	N77-32454 *	NASA-CASE-LEW-12906-1	c 26	N77-32279 *
NASA-CASE-LEW-10805-3	c 26	N74-10521 *	NASA-CASE-LEW-12051-1	c 52	N75-33640 *	NASA-CASE-LEW-12907-2	c 07	N81-19115 *
NASA-CASE-LEW-10814-1	c 28	N70-35422 *	NASA-CASE-LEW-12053-1	c 27	N78-15276 *	NASA-CASE-LEW-12916-1	c 37	N78-17384 *
NASA-CASE-LEW-10835-1	c 28	N72-22771 *	NASA-CASE-LEW-12053-2	c 27	N79-28307 *	NASA-CASE-LEW-12917-1	c 07	N78-18067 *
NASA-CASE-LEW-10856-1	c 15	N72-22490 *	NASA-CASE-LEW-12078-1	c 35	N75-30503 *	NASA-CASE-LEW-12918-1	c 44	N81-24521 *
NASA-CASE-LEW-10874-1	c 17	N72-22535 *	NASA-CASE-LEW-12081-1	c 28	N78-24365 *	NASA-CASE-LEW-12919-1	c 24	N83-10117 *
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NASA-CASE-LEW-10920-1	c 17	N73-24569 *	NASA-CASE-LEW-12081-3	c 28	N81-14103 *	NASA-CASE-LEW-12933-1	c 27	N81-19296 *
NASA-CASE-LEW-10950-1	c 33	N74-27683 *	NASA-CASE-LEW-12082-1	c 20	N77-10148 *	NASA-CASE-LEW-12938-1	c 07	N82-32366 *
NASA-CASE-LEW-10965-1	c 15	N72-25452 *	NASA-CASE-LEW-12083-1	c 37	N78-13436 *	NASA-CASE-LEW-12940-1	c 72	N80-33186 *
NASA-CASE-LEW-10981-1	c 35	N74-21018 *	NASA-CASE-LEW-12094-1	c 76	N76-25049 *	NASA-CASE-LEW-12941-1	c 26	N83-10170 *
NASA-CASE-LEW-11005-1	c 09	N72-21243 *	NASA-CASE-LEW-12095-1	c 26	N78-18182 *	NASA-CASE-LEW-12950-1	c 34	N82-11399 *
NASA-CASE-LEW-11015	c 26	N73-32571 *	NASA-CASE-LEW-12118-1	c 24	N77-27188 *	NASA-CASE-LEW-12950-2	c 34	N85-29179 *
NASA-CASE-LEW-11026-1	c 15	N73-33383 *	NASA-CASE-LEW-12119-1	c 37	N80-28711 *	NASA-CASE-LEW-12955-1	c 52	N80-14684 *
NASA-CASE-LEW-11058-1	c 20	N74-13502 *	NASA-CASE-LEW-12119-2	c 37	N81-26447 *	NASA-CASE-LEW-12971-1	c 07	N80-18039 *
NASA-CASE-LEW-11065-2	c 44	N76-14600 *	NASA-CASE-LEW-12131-1	c 37	N79-18318 *	NASA-CASE-LEW-12972-1	c 44	N79-25481 *
NASA-CASE-LEW-11069-1	c 44	N74-14784 *	NASA-CASE-LEW-12131-2	c 37	N80-26658 *	NASA-CASE-LEW-12982-1	c 37	N81-19455 *
NASA-CASE-LEW-11072-1	c 14	N73-24472 *	NASA-CASE-LEW-12131-3	c 37	N82-19540 *	NASA-CASE-LEW-12989-1	c 37	N82-12442 *
NASA-CASE-LEW-11072-2	c 35	N76-15434 *	NASA-CASE-LEW-12137-1	c 25	N78-10224 *	NASA-CASE-LEW-12990-1	c 07	N81-29129 *
NASA-CASE-LEW-11076-1	c 37	N74-21061 *	NASA-CASE-LEW-12159-1	c 44	N78-19599 *	NASA-CASE-LEW-12991-1	c 37	N81-24442 *
NASA-CASE-LEW-11076-2	c 37	N74-32921 *	NASA-CASE-LEW-12164-1	c 36	N77-32478 *	NASA-CASE-LEW-12995-1	c 37	N84-33808 *
NASA-CASE-LEW-11076-3	c 37	N75-30562 *	NASA-CASE-LEW-12174-2	c 35	N79-14346 *	NASA-CASE-LEW-13027-1	c 27	N80-24437 *
NASA-CASE-LEW-11076-4	c 37	N76-15461 *	NASA-CASE-LEW-12185-1	c 44	N78-25528 *	NASA-CASE-LEW-13028-1	c 27	N82-33521 *
NASA-CASE-LEW-11087-1	c 15	N73-30458 *	NASA-CASE-LEW-12217-1	c 43	N78-14452 *	NASA-CASE-LEW-13050-1	c 07	N79-14095 *
NASA-CASE-LEW-11087-2	c 37	N74-15128 *	NASA-CASE-LEW-12220-1	c 44	N77-14581 *	NASA-CASE-LEW-13088-1	c 26	N81-25188 *
NASA-CASE-LEW-11087-3	c 37	N74-21064 *	NASA-CASE-LEW-12232-1	c 07	N79-10057 *	NASA-CASE-LEW-13101-2	c 23	N81-29160 *
NASA-CASE-LEW-11101-1	c 31	N73-32750 *	NASA-CASE-LEW-12236-2	c 44	N79-14528 *	NASA-CASE-LEW-13102-1	c 33	N85-29144 *
NASA-CASE-LEW-11118-1	c 20	N74-32919 *	NASA-CASE-LEW-12245-1	c 26	N77-20201 *	NASA-CASE-LEW-13103-1	c 27	N80-32516 *
NASA-CASE-LEW-11118-2	c 20	N76-14191 *	NASA-CASE-LEW-12252-1	c 34	N79-13288 *	NASA-CASE-LEW-13107-1	c 52	N83-21785 *
NASA-CASE-LEW-11152-1	c 15	N73-32359 *	NASA-CASE-LEW-12253-1	c 74	N83-19596 *	NASA-CASE-LEW-13107-2	c 52	N84-23095 *
NASA-CASE-LEW-11158-1	c 37	N77-28486 *	NASA-CASE-LEW-12258-1	c 52	N77-28716 *	NASA-CASE-LEW-13120-1	c 27	N82-28440 *
NASA-CASE-LEW-11159-1	c 14	N73-28488 *	NASA-CASE-LEW-12270-1	c 26	N77-32280 *	NASA-CASE-LEW-13131-1	c 44	N83-10494 *
NASA-CASE-LEW-11162-1	c 33	N74-12913 *	NASA-CASE-LEW-12274-1	c 37	N80-31790 *	NASA-CASE-LEW-13132-1	c 27	N83-29388 *
NASA-CASE-LEW-11169-1	c 37	N76-23570 *	NASA-CASE-LEW-12296-1	c 33	N82-26568 *	NASA-CASE-LEW-13135-2	c 27	N81-24257 *
NASA-CASE-LEW-11179-1	c 27	N76-16229 *	NASA-CASE-LEW-12312-1	c 07	N77-32148 *	NASA-CASE-LEW-13142-1	c 07	N83-36029 *
NASA-CASE-LEW-11180-1	c 25	N73-25760 *	NASA-CASE-LEW-12313-1	c 37	N78-10468 *	NASA-CASE-LEW-13142-2	c 07	N86-20389 *
NASA-CASE-LEW-11187-1	c 28	N73-19793 *	NASA-CASE-LEW-12317-1	c 07	N78-17055 *	NASA-CASE-LEW-13148-1	c 33	N80-20487 *
NASA-CASE-LEW-11188-1	c 02	N74-20646 *	NASA-CASE-LEW-12321-1	c 37	N78-10467 *	NASA-CASE-LEW-13148-2	c 44	N81-29524 *
NASA-CASE-LEW-11192-1	c 09	N73-13208 *	NASA-CASE-LEW-12358-1	c 44	N79-17313 *	NASA-CASE-LEW-13150-1	c 44	N79-26474 *
NASA-CASE-LEW-11227-1	c 73	N75-30876 *	NASA-CASE-LEW-12358-2	c 25	N82-21268 *	NASA-CASE-LEW-13169-1	c 26	N82-29415 *
NASA-CASE-LEW-11262-1	c 27	N74-13270 *	NASA-CASE-LEW-12364-1	c 44	N77-22606 *	NASA-CASE-LEW-13169-2	c 26	N82-30371 *
NASA-CASE-LEW-11267-1	c 17	N73-32414 *	NASA-CASE-LEW-12378-1	c 07	N79-14097 *	NASA-CASE-LEW-13171-1	c 44	N82-29708 *
NASA-CASE-LEW-11274-1	c 07	N75-21631 *	NASA-CASE-LEW-12389-2	c 07	N78-18066 *	NASA-CASE-LEW-13171-2	c 44	N83-32176 *
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NASA-CASE-LEW-11325-1	c 06	N73-27980 *	NASA-CASE-LEW-12390-1	c 07	N78-17056 *	NASA-CASE-LEW-13199-1	c 07	N82-26293 *
NASA-CASE-LEW-11326-1	c 23	N73-30665 *	NASA-CASE-LEW-12419-1	c 07	N77-14025 *	NASA-CASE-LEW-13201-1	c 07	N81-14999 *
NASA-CASE-LEW-11358	c 03	N71-26084 *	NASA-CASE-LEW-12441-1	c 34	N79-13289 *	NASA-CASE-LEW-13226-1	c 27	N81-17260 *
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NASA-CASE-LEW-11387-1	c 37	N74-18128 *	NASA-CASE-LEW-12443-1	c 44	N83-32175 *	NASA-CASE-LEW-13268-2	c 37	N82-26674 *
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NASA-CASE-LEW-11390-3	c 25	N76-29379 *	NASA-CASE-LEW-12465-1	c 25	N78-25148 *	NASA-CASE-LEW-13286-1	c 33	N84-14422 *
NASA-CASE-LEW-11402-1	c 07	N74-28226 *	NASA-CASE-LEW-12477-1	c 37	N77-32501 *	NASA-CASE-LEW-13324-2	c 24	N85-21266 *
NASA-CASE-LEW-11484-1	c 24	N75-33181 *	NASA-CASE-LEW-12493-1	c 24	N81-17170 *	NASA-CASE-LEW-13339-1	c 26	N82-31505 *
NASA-CASE-LEW-11496-1	c 44	N77-14580 *	NASA-CASE-LEW-12493-2	c 24	N81-26179 *	NASA-CASE-LEW-13343-1	c 27	N82-28441 *
NASA-CASE-LEW-11531	c 15	N71-14932 *	NASA-CASE-LEW-12496-1	c 07	N78-33101 *	NASA-CASE-LEW-13343	c 26	N83-31795 *
NASA-CASE-LEW-11549-1	c 44	N77-19571 *	NASA-CASE-LEW-12508-1	c 34	N78-17335 *	NASA-CASE-LEW-13349-1	c 26	N84-22734 *
NASA-CASE-LEW-11569-1	c 07	N74-15453 *	NASA-CASE-LEW-12508-3	c 34	N83-29625 *	NASA-CASE-LEW-1335901	c 27	N83-31855 *
NASA-CASE-LEW-11573-1	c 26	N77-28265 *	NASA-CASE-LEW-12513-1	c 25	N79-22235 *	NASA-CASE-LEW-13400-1	c 44	N82-31764 *
NASA-CASE-LEW-11581-1	c 54	N75-13531 *	NASA-CASE-LEW-12527-1	c 37	N77-32500 *	NASA-CASE-LEW-13401-1	c 44	N82-29709 *
NASA-CASE-LEW-11583-1	c 35	N79-17192 *	NASA-CASE-LEW-12541-1	c 44	N78-25529 *	NASA-CASE-LEW-13401-2	c 44	N83-32177 *
NASA-CASE-LEW-11593-1	c 20	N76-14190 *	NASA-CASE-LEW-12542-2	c 26	N79-22271 *	NASA-CASE-LEW-13414-1	c 44	N85-20530 *
NASA-CASE-LEW-11617-1	c 33	N74-10195 *	NASA-CASE-LEW-12542-3	c 26	N80-32484 *	NASA-CASE-LEW-13426-1	c 25	N84-16276 *
NASA-CASE-LEW-11632-2	c 35	N75-13213 *	NASA-CASE-LEW-12550-1	c 24	N77-19170 *	NASA-CASE-LEW-13429-1	c 33	N83-31952 *
NASA-CASE-LEW-11646-1	c 20	N74-31269 *	NASA-CASE-LEW-12552-1	c 44	N78-25527 *	NASA-CASE-LEW-13450-1	c 31	N83-35177 *
NASA-CASE-LEW-11669-1	c 05	N73-27062 *	NASA-CASE-LEW-12552-2	c 44	N79-11472 *	NASA-CASE-LEW-13495-1	c 33	N84-33663 *
NASA-CASE-LEW-11672-1	c 37	N74-27904 *	NASA-CASE-LEW-12554-1	c 34	N78-18355 *	NASA-CASE-LEW-13504-1	c 25	N83-13188 *
NASA-CASE-LEW-11676-1	c 37	N76-22541 *	NASA-CASE-LEW-12569-1	c 37	N79-10418 *	NASA-CASE-LEW-13506-1	c 37	N85-33490 *
NASA-CASE-LEW-11694-1	c 20	N75-18310 *	NASA-CASE-LEW-12582-1	c 76	N83-34796 *	NASA-CASE-LEW-13524-1	c 07	N84-33410 *

NASA-CASE-LEW-13526-1	c 36	N84-22944 *	NASA-CASE-LEW-14945-2	c 32	N91-15469 * #	NASA-CASE-MFS-20332	c 05	N72-20097 *
NASA-CASE-LEW-13556-1	c 44	N81-27615 *	NASA-CASE-LEW-14959-1	c 44	N91-13803 * #	NASA-CASE-MFS-20333	c 09	N71-13486 *
NASA-CASE-LEW-13562-2	c 07	N85-35195 *	NASA-CASE-LEW-14965-1	c 37	N91-13732 * #	NASA-CASE-MFS-20335-1	c 35	N74-10415 *
NASA-CASE-LEW-13570-1	c 33	N84-16452 *	NASA-CASE-LEW-14967-1	c 35	N91-13685 * #	NASA-CASE-MFS-20355	c 33	N71-25353 *
NASA-CASE-LEW-13598-1	c 35	N84-22930 *	NASA-CASE-LEW-14984-1	c 27	N91-16152 * #	NASA-CASE-MFS-20385	c 09	N71-24904 *
NASA-CASE-LEW-13609-1	c 25	N90-11824 *	NASA-CASE-LEW-14990-1-CU	c 24	N91-17145 *	NASA-CASE-MFS-20386	c 21	N71-19212 *
NASA-CASE-LEW-13620-1	c 44	N83-13579 *	NASA-CASE-LEW-14999-1	c 24	N91-13500 * #	NASA-CASE-MFS-20395	c 15	N71-24903 *
NASA-CASE-LEW-13622-1	c 07	N84-22559 *	NASA-CASE-LEW-15020-1	c 27	N91-15412 * #	NASA-CASE-MFS-20400	c 31	N71-18611 *
NASA-CASE-LEW-13639-1	c 26	N84-33555 *	NASA-CASE-LEW-15027-1	c 27	N91-13566 * #	NASA-CASE-MFS-20407	c 09	N73-19235 *
NASA-CASE-LEW-13639-2	c 26	N84-27855 *	NASA-CASE-LEW-23169-2	c 26	N81-16209 * #	NASA-CASE-MFS-20408	c 18	N73-12604 *
NASA-CASE-LEW-13653-1	c 44	N84-28205 *				NASA-CASE-MFS-20410	c 15	N71-19214 *
NASA-CASE-LEW-13654-1	c 07	N84-22560 *	NASA-CASE-MFS-06074	c 15	N71-20393 *	NASA-CASE-MFS-20413	c 15	N72-21463 *
NASA-CASE-LEW-13670-1	c 37	N86-19606 *	NASA-CASE-MFS-07369	c 15	N71-20443 *	NASA-CASE-MFS-20418	c 14	N73-24473 *
NASA-CASE-LEW-13717-1	c 37	N85-30333 *	NASA-CASE-MFS-10068	c 10	N71-25139 *	NASA-CASE-MFS-20423	c 15	N72-11388 *
NASA-CASE-LEW-13736-1	c 33	N84-27974 *	NASA-CASE-MFS-10340	c 15	N71-17628 *	NASA-CASE-MFS-20433	c 15	N72-28496 *
NASA-CASE-LEW-13758-1	c 24	N84-27829 *	NASA-CASE-MFS-10412	c 12	N71-17578 *	NASA-CASE-MFS-20434	c 11	N72-25288 *
NASA-CASE-LEW-13770-1	c 27	N84-27885 *	NASA-CASE-MFS-10506	c 06	N73-30100 *	NASA-CASE-MFS-20453	c 15	N71-29133 *
NASA-CASE-LEW-13770-2	c 25	N85-28982 *	NASA-CASE-MFS-10507	c 06	N73-30101 *	NASA-CASE-MFS-20482	c 15	N72-22492 *
NASA-CASE-LEW-13770-3	c 27	N85-21350 *	NASA-CASE-MFS-10509	c 06	N73-30103 *	NASA-CASE-MFS-20485	c 14	N72-11365 *
NASA-CASE-LEW-13770-4	c 27	N85-21351 *	NASA-CASE-MFS-10512	c 06	N73-30099 *	NASA-CASE-MFS-20486-2	c 27	N74-17283 *
NASA-CASE-LEW-13770-5	c 27	N85-21352 *	NASA-CASE-MFS-10555	c 11	N71-19494 *	NASA-CASE-MFS-20506-1	c 35	N75-12273 *
NASA-CASE-LEW-13770-6	c 25	N85-30039 *	NASA-CASE-MFS-10946-1	c 31	N79-21226 *	NASA-CASE-MFS-20509	c 11	N72-17183 *
NASA-CASE-LEW-13773-2	c 33	N86-20671 *	NASA-CASE-MFS-11132	c 15	N71-17649 *	NASA-CASE-MFS-20523	c 14	N72-27412 *
NASA-CASE-LEW-13822-1	c 44	N86-25874 *	NASA-CASE-MFS-11133	c 31	N71-16222 *	NASA-CASE-MFS-20546-2	c 14	N73-30389 *
NASA-CASE-LEW-13827-1	c 44	N85-21768 *	NASA-CASE-MFS-11204	c 14	N71-29134 *	NASA-CASE-MFS-20586	c 15	N71-17686 *
NASA-CASE-LEW-13828-1	c 24	N85-30027 *	NASA-CASE-MFS-11279	c 16	N71-20400 *	NASA-CASE-MFS-20589	c 25	N72-32688 *
NASA-CASE-LEW-13833-1	c 33	N85-21492 *	NASA-CASE-MFS-11492	c 06	N73-30102 *	NASA-CASE-MFS-20596	c 14	N72-17324 *
NASA-CASE-LEW-13834-1	c 26	N87-14482 *	NASA-CASE-MFS-11497	c 28	N71-16224 *	NASA-CASE-MFS-20607-1	c 37	N78-19436 *
NASA-CASE-LEW-13837-1	c 24	N84-22695 *	NASA-CASE-MFS-11537	c 14	N71-20442 *	NASA-CASE-MFS-20619	c 28	N72-11708 *
NASA-CASE-LEW-13837-2	c 24	N85-21267 *	NASA-CASE-MFS-12750	c 27	N71-16223 *	NASA-CASE-MFS-20620	c 11	N72-27262 *
NASA-CASE-LEW-13864-1	c 27	N86-19457 *	NASA-CASE-MFS-12805	c 15	N71-17805 *	NASA-CASE-MFS-20642	c 14	N72-21407 *
NASA-CASE-LEW-13881-1	c 20	N85-21256 *	NASA-CASE-MFS-12806	c 14	N71-17588 *	NASA-CASE-MFS-20645-1	c 37	N74-23070 *
NASA-CASE-LEW-13899-1	c 31	N87-21160 *	NASA-CASE-MFS-12827	c 14	N71-17586 *	NASA-CASE-MFS-20658-1	c 14	N73-30386 *
NASA-CASE-LEW-13914-1	c 37	N85-33489 *	NASA-CASE-MFS-12915	c 11	N71-17600 *	NASA-CASE-MFS-20673	c 14	N73-20476 *
NASA-CASE-LEW-13922-1	c 33	N86-20672 *	NASA-CASE-MFS-13046	c 07	N71-19433 *	NASA-CASE-MFS-20675	c 26	N73-26751 *
NASA-CASE-LEW-13923-1	c 26	N85-35267 *	NASA-CASE-MFS-13130	c 10	N72-17173 *	NASA-CASE-MFS-20698-2	c 15	N73-19457 *
NASA-CASE-LEW-13934-1	c 35	N83-35338 *	NASA-CASE-MFS-13532	c 18	N72-17532 *	NASA-CASE-MFS-20698	c 15	N72-20446 *
NASA-CASE-LEW-13935-1	c 33	N87-21234 *	NASA-CASE-MFS-13686	c 15	N71-18132 *	NASA-CASE-MFS-20710	c 11	N72-23215 *
NASA-CASE-LEW-13981-2	c 33	N86-21742 *	NASA-CASE-MFS-13687-2	c 09	N72-22198 *	NASA-CASE-MFS-20730-1	c 39	N74-13131 *
NASA-CASE-LEW-14028-1	c 44	N86-19721 *	NASA-CASE-MFS-13687	c 09	N71-28691 *	NASA-CASE-MFS-20757	c 09	N72-28225 *
NASA-CASE-LEW-14035-1	c 07	N84-25477 *	NASA-CASE-MFS-13929	c 15	N71-27091 *	NASA-CASE-MFS-20760	c 14	N72-33377 *
NASA-CASE-LEW-14037-1	c 20	N87-16875 *	NASA-CASE-MFS-13994-1	c 06	N71-11240 *	NASA-CASE-MFS-20761-1	c 44	N74-27519 *
NASA-CASE-LEW-14039-1	c 34	N85-33433 *	NASA-CASE-MFS-13994-2	c 06	N72-25146 *	NASA-CASE-MFS-20767-1	c 38	N74-15130 *
NASA-CASE-LEW-14057-1	c 24	N85-35233 *	NASA-CASE-MFS-14017	c 14	N71-26627 *	NASA-CASE-MFS-20774	c 14	N73-19420 *
NASA-CASE-LEW-14072-1	c 27	N86-19458 *	NASA-CASE-MFS-14023	c 33	N71-25351 *	NASA-CASE-MFS-20775-1	c 31	N75-12161 *
NASA-CASE-LEW-14072-2	c 27	N86-32569 *	NASA-CASE-MFS-14114-2	c 09	N71-24807 *	NASA-CASE-MFS-20809	c 23	N73-13660 *
NASA-CASE-LEW-14072-3	c 27	N87-23736 *	NASA-CASE-MFS-14114	c 33	N71-27862 *	NASA-CASE-MFS-20823-1	c 16	N73-30476 *
NASA-CASE-LEW-14077-1	c 44	N85-34441 *	NASA-CASE-MFS-14216	c 14	N73-13418 *	NASA-CASE-MFS-20829	c 12	N72-21310 *
NASA-CASE-LEW-14080-1	c 31	N85-20153 *	NASA-CASE-MFS-14253	c 33	N71-24858 *	NASA-CASE-MFS-20830	c 15	N71-30028 *
NASA-CASE-LEW-14104-2	c 26	N88-14179 *	NASA-CASE-MFS-14259	c 15	N71-19213 *	NASA-CASE-MFS-20831	c 28	N71-29153 *
NASA-CASE-LEW-14108-1	c 33	N87-28832 *	NASA-CASE-MFS-14322	c 08	N71-18692 *	NASA-CASE-MFS-20855-1	c 15	N77-10112 *
NASA-CASE-LEW-14124-1	c 35	N90-23712 *	NASA-CASE-MFS-14405	c 15	N72-28495 *	NASA-CASE-MFS-20855	c 15	N73-27405 *
NASA-CASE-LEW-14127-1	c 33	N86-20680 *	NASA-CASE-MFS-14610	c 09	N71-28886 *	NASA-CASE-MFS-20861-1	c 18	N73-32437 *
NASA-CASE-LEW-14130-1	c 31	N86-32587 *	NASA-CASE-MFS-14671	c 05	N71-12341 *	NASA-CASE-MFS-20863	c 31	N73-26876 *
NASA-CASE-LEW-14134-2	c 26	N89-14303 *	NASA-CASE-MFS-14685	c 31	N71-15689 *	NASA-CASE-MFS-20890	c 14	N72-22439 *
NASA-CASE-LEW-14162-1	c 34	N91-13668 *	NASA-CASE-MFS-14710	c 09	N72-22195 *	NASA-CASE-MFS-20916	c 14	N73-25460 *
NASA-CASE-LEW-14170-1	c 37	N86-25790 *	NASA-CASE-MFS-14711	c 15	N71-26185 *	NASA-CASE-MFS-20922-1	c 18	N74-22136 *
NASA-CASE-LEW-14177-1	c 44	N86-32875 *	NASA-CASE-MFS-14741	c 09	N70-20737 *	NASA-CASE-MFS-20922	c 31	N72-20840 *
NASA-CASE-LEW-14196-2	c 37	N87-25585 *	NASA-CASE-MFS-14772	c 15	N71-17692 *	NASA-CASE-MFS-20932-1	c 35	N75-19616 *
NASA-CASE-LEW-14203-1	c 27	N91-15402 *	NASA-CASE-MFS-14971	c 15	N71-24984 *	NASA-CASE-MFS-20935	c 09	N71-34212 *
NASA-CASE-LEW-14212-1	c 37	N86-23978 *	NASA-CASE-MFS-15063	c 14	N72-25412 *	NASA-CASE-MFS-20944	c 15	N73-13466 *
NASA-CASE-LEW-14262-1	c 26	N87-28647 *	NASA-CASE-MFS-15162	c 14	N72-32452 *	NASA-CASE-MFS-20979-2	c 06	N73-32030 *
NASA-CASE-LEW-14295-1	c 31	N91-15424 *	NASA-CASE-MFS-15218-1	c 37	N77-19457 *	NASA-CASE-MFS-20979	c 06	N72-25151 *
NASA-CASE-LEW-14297-1	c 35	N89-12048 *	NASA-CASE-MFS-15429-1	c 18	N84-22609 *	NASA-CASE-MFS-20994-1	c 35	N75-12271 *
NASA-CASE-LEW-14345-1	c 23	N88-26404 *	NASA-CASE-MFS-15670-1	c 33	N82-33634 *	NASA-CASE-MFS-21010-1	c 05	N73-30078 *
NASA-CASE-LEW-14345-2	c 25	N90-23497 *	NASA-CASE-MFS-16570-1	c 05	N73-32013 *	NASA-CASE-MFS-21040-1	c 06	N73-30098 *
NASA-CASE-LEW-14345-3	c 23	N91-17141 *	NASA-CASE-MFS-16609-3	c 03	N76-32140 *	NASA-CASE-MFS-21042	c 07	N72-25171 *
NASA-CASE-LEW-14346-1	c 23	N90-19300 *	NASA-CASE-MFS-18100	c 15	N72-11390 *	NASA-CASE-MFS-21045-1	c 35	N75-15932 *
NASA-CASE-LEW-14374-1	c 09	N88-28939 *	NASA-CASE-MFS-18495	c 15	N72-11385 *	NASA-CASE-MFS-21046-1	c 14	N73-27377 *
NASA-CASE-LEW-14392-1	c 27	N87-28656 *	NASA-CASE-MFS-19193-1	c 37	N75-19686 *	NASA-CASE-MFS-21049-1	c 52	N74-27864 *
NASA-CASE-LEW-14392-2	c 27	N89-29538 *	NASA-CASE-MFS-19194-1	c 37	N76-14460 *	NASA-CASE-MFS-21077-1	c 24	N75-28135 *
NASA-CASE-LEW-14472-1	c 24	N91-15320 *	NASA-CASE-MFS-19220-1	c 20	N76-22296 *	NASA-CASE-MFS-21087-1	c 35	N74-17153 *
NASA-CASE-LEW-14520-1	c 33	N90-22724 *	NASA-CASE-MFS-19259-1	c 36	N78-14380 *	NASA-CASE-MFS-21108-1	c 34	N74-27861 *
NASA-CASE-LEW-14586-1	c 07	N83-31603 *	NASA-CASE-MFS-19287-1	c 34	N77-30399 *	NASA-CASE-MFS-21109-1	c 05	N73-27941 *
NASA-CASE-LEW-14672-1	c 37	N90-15444 *	NASA-CASE-MFS-19796-1	c 37	N86-32736 *	NASA-CASE-MFS-21115-1	c 54	N74-12779 *
NASA-CASE-LEW-14676-2	c 76	N90-17454 *	NASA-CASE-MFS-20011	c 18	N72-22566 *	NASA-CASE-MFS-21136-1	c 35	N74-18323 *
NASA-CASE-LEW-14679-1	c 27	N89-28651 *	NASA-CASE-MFS-20044	c 14	N71-28993 *	NASA-CASE-MFS-21163-1	c 54	N74-17853 *
NASA-CASE-LEW-14695-1	c 37	N90-23751 *	NASA-CASE-MFS-20068	c 07	N71-27191 *	NASA-CASE-MFS-21214-1	c 09	N73-30181 *
NASA-CASE-LEW-14698-2	c 27	N90-15262 *	NASA-CASE-MFS-20074	c 16	N71-15565 *	NASA-CASE-MFS-21233-1	c 38	N74-15395 *
NASA-CASE-LEW-14719-1	c 24	N90-23493 *	NASA-CASE-MFS-20075	c 09	N71-26133 *	NASA-CASE-MFS-21244-1	c 36	N75-15028 *
NASA-CASE-LEW-14731-1	c 44	N91-13802 *	NASA-CASE-MFS-20095	c 24	N72-11595 *	NASA-CASE-MFS-21309-1	c 37	N74-18125 *
NASA-CASE-LEW-14734-1	c 24	N89-23623 *	NASA-CASE-MFS-20096	c 14	N71-30026 *	NASA-CASE-MFS-21311-1	c 20	N76-21275 *
NASA-CASE-LEW-14746-1	c 33	N91-14552 *	NASA-CASE-MFS-20125	c 16	N72-13437 *	NASA-CASE-MFS-21362	c 11	N73-20267 *
NASA-CASE-LEW-14776-1	c 37	N90-15445 *	NASA-CASE-MFS-20130	c 28	N71-27585 *	NASA-CASE-MFS-21364-1	c 37	N74-18126 *
NASA-CASE-LEW-14795-1	c 74	N90-15733 *	NASA-CASE-MFS-20180	c 16	N72-12440 *	NASA-CASE-MFS-21372-1	c 74	N74-27866 *
NASA-CASE-LEW-14844-1	c 35	N90-22024 *	NASA-CASE-MFS-20207-1	c 09	N73-32107 *	NASA-CASE-MFS-21374-1	c 33	N74-12951 *
NASA-CASE-LEW-14846-1	c 20	N90-15130 *	NASA-CASE-MFS-20240	c 14	N71-26788 *	NASA-CASE-MFS-21394-1	c 34	N74-27744 *
NASA-CASE-LEW-14848-1	c 14	N89-28549 *	NASA-CASE-MFS-20242	c 14	N73-19421 *	NASA-CASE-MFS-21395-1	c 25	N74-26948 *
NASA-CASE-LEW-14862-1	c 37	N91-13730 *	NASA-CASE-MFS-20243	c 23	N73-13662 *	NASA-CASE-MFS-21415-1	c 52	N74-20728 *
NASA-CASE-LEW-14862-1	c 37	N91-14617 *	NASA-CASE-MFS-20249	c 15	N72-11386 *	NASA-CASE-MFS-21424-1	c 34	N74-27730 *
NASA-CASE-LEW-14878-1	c 74	N91-13996 *	NASA-CASE-MFS-20261	c 14	N71-27005 *	NASA-CASE-MFS-21433	c 09	N73-20232 *
NASA-CASE-LEW-14880-1	c 35	N90-10415 *	NASA-CASE-MFS-20284-1	c 52	N74-12778 *	NASA-CASE-MFS-21441-1	c 14	N73-30392 *
NASA-CASE-LEW-14901-1	c 75	N90-10718 *	NASA-CASE-MFS-20299	c 15	N72-11392 *	NASA-CASE-MFS-21455-1	c 35	N74-15146 *
NASA-CASE-LEW-14902-1	c 24	N91-13503 *	NASA-CASE-MFS-20317	c 15	N73-13463 *	NASA-CASE-MFS-21462-1	c 33	N74-14935 *
NASA-CASE-LEW-14921-1	c 24	N91-13502 *	NASA-CASE-MFS-20325	c 28	N71-27095 *	NASA-CASE-MFS-21465-1	c 10	N73-32145 *
NASA-CASE-LEW-14945-1	c 32	N91-13598 *	NASA-CASE-MFS-20332-2	c 05	N73-25125 *	NASA-CASE-MFS-21470-1	c 44	N74-19870 *

NASA-CASE-MFS-21481-1	c 37	N74-18127 *	NASA-CASE-MFS-23274-1	c 33	N78-13320 *	NASA-CASE-MFS-25641-1	c 72	N84-28575 *
NASA-CASE-MFS-21485-1	c 37	N74-25968 *	NASA-CASE-MFS-23280-1	c 33	N78-10376 *	NASA-CASE-MFS-256704-1	c 33	N84-22884 *
NASA-CASE-MFS-21488-1	c 14	N75-24794 *	NASA-CASE-MFS-23281-1	c 35	N77-22450 *	NASA-CASE-MFS-25678-1	c 37	N84-11497 *
NASA-CASE-MFS-21540-1	c 32	N74-19790 *	NASA-CASE-MFS-23284-1	c 37	N80-14397 *	NASA-CASE-MFS-25687-1	c 35	N84-22928 *
NASA-CASE-MFS-21556-1	c 35	N74-26945 *	NASA-CASE-MFS-23299-1	c 39	N77-28511 *	NASA-CASE-MFS-25707-1	c 35	N82-26631 #
NASA-CASE-MFS-21577-1	c 19	N74-29410 *	NASA-CASE-MFS-23303-1	c 32	N77-18307 *	NASA-CASE-MFS-25717-1	c 35	N84-33768 *
NASA-CASE-MFS-21606-1	c 37	N75-19685 *	NASA-CASE-MFS-23311-1	c 54	N78-17676 *	NASA-CASE-MFS-25721-1	c 25	N85-21280 *
NASA-CASE-MFS-21611-1	c 54	N75-12616 *	NASA-CASE-MFS-23312-1	c 33	N78-27326 *	NASA-CASE-MFS-25740-1	c 52	N84-11744 *
NASA-CASE-MFS-21616-1	c 33	N75-30429 *	NASA-CASE-MFS-23315-1	c 76	N78-24950 *	NASA-CASE-MFS-25750-1	c 32	N86-20647 *
NASA-CASE-MFS-21628-1	c 44	N75-32581 *	NASA-CASE-MFS-23345-1	c 27	N77-30237 *	NASA-CASE-MFS-25752-1	c 74	N86-21348 *
NASA-CASE-MFS-21628-2	c 44	N76-23675 *	NASA-CASE-MFS-23349-1	c 44	N79-23481 *	NASA-CASE-MFS-25754-1	c 35	N84-28018 *
NASA-CASE-MFS-21629	c 14	N72-22442 *	NASA-CASE-MFS-23362-1	c 47	N77-10753 *	NASA-CASE-MFS-25786-2	c 76	N90-20896 *
NASA-CASE-MFS-21660-1	c 35	N74-21017 *	NASA-CASE-MFS-23363-1	c 35	N78-32396 *	NASA-CASE-MFS-25791-1	c 09	N84-27749 *
NASA-CASE-MFS-21671-1	c 33	N74-22885 *	NASA-CASE-MFS-23405-1	c 26	N77-29260 *	NASA-CASE-MFS-25807-2	c 37	N86-21850 *
NASA-CASE-MFS-21672-1	c 74	N76-19935 *	NASA-CASE-MFS-23447-1	c 37	N79-11404 *	NASA-CASE-MFS-25807	c 37	N83-20154 #
NASA-CASE-MFS-21675-1	c 25	N74-33378 *	NASA-CASE-MFS-23460-1	c 12	N79-26075 *	NASA-CASE-MFS-25825-1	c 31	N86-29055 *
NASA-CASE-MFS-21680-1	c 18	N74-27397 *	NASA-CASE-MFS-23461-1	c 35	N79-10389 *	NASA-CASE-MFS-25828-1	c 71	N84-28568 *
NASA-CASE-MFS-21681-1	c 18	N74-27397 *	NASA-CASE-MFS-23506-1	c 24	N78-24290 *	NASA-CASE-MFS-25833-1	c 35	N86-32698 *
NASA-CASE-MFS-21698-1	c 33	N74-26732 *	NASA-CASE-MFS-23513-1	c 74	N79-11865 *	NASA-CASE-MFS-25837-1	c 18	N85-29991 *
NASA-CASE-MFS-21704-1	c 35	N75-25124 *	NASA-CASE-MFS-23515-1	c 44	N80-21828 *	NASA-CASE-MFS-25842-2	c 37	N86-20788 *
NASA-CASE-MFS-21728-1	c 35	N74-27865 *	NASA-CASE-MFS-23518-1	c 44	N79-11469 *	NASA-CASE-MFS-25843-1	c 20	N83-17588 #
NASA-CASE-MFS-21761-1	c 35	N75-15931 *	NASA-CASE-MFS-23518-3	c 44	N80-16452 *	NASA-CASE-MFS-25852-1	c 33	N84-33661 *
NASA-CASE-MFS-21846-1	c 37	N74-26976 *	NASA-CASE-MFS-23540-1	c 44	N79-26475 *	NASA-CASE-MFS-25853-1	c 16	N84-27784 *
NASA-CASE-MFS-21919-1	c 10	N73-25243 *	NASA-CASE-MFS-23541-1	c 76	N79-14906 *	NASA-CASE-MFS-25854-1	c 33	N84-27975 *
NASA-CASE-MFS-21931-1	c 37	N75-26372 *	NASA-CASE-MFS-23551-1	c 04	N76-26175 *	NASA-CASE-MFS-25861-1	c 33	N85-22877 *
NASA-CASE-MFS-22002-1	c 44	N76-16612 *	NASA-CASE-MFS-23564-1	c 15	N78-25119 *	NASA-CASE-MFS-25862-1	c 27	N85-20126 *
NASA-CASE-MFS-22022-1	c 37	N76-15460 *	NASA-CASE-MFS-23579-1	c 18	N79-11108 *	NASA-CASE-MFS-25862-2	c 37	N84-33807 *
NASA-CASE-MFS-22039-1	c 09	N75-12968 *	NASA-CASE-MFS-23620-1	c 37	N79-10421 *	NASA-CASE-MFS-25868-1	c 33	N86-20670 *
NASA-CASE-MFS-22040-1	c 35	N74-26946 *	NASA-CASE-MFS-23626-1	c 24	N80-26388 *	NASA-CASE-MFS-25878-1	c 18	N84-27787 *
NASA-CASE-MFS-22060-1	c 35	N75-29380 *	NASA-CASE-MFS-23642-1	c 20	N80-10278 *	NASA-CASE-MFS-25905-2	c 31	N86-21718 *
NASA-CASE-MFS-22073-1	c 33	N75-13139 *	NASA-CASE-MFS-23642-2	c 20	N78-27176 #	NASA-CASE-MFS-25906-1	c 37	N86-20789 *
NASA-CASE-MFS-22088-1	c 33	N75-15874 *	NASA-CASE-MFS-23646-1	c 37	N79-22474 *	NASA-CASE-MFS-25907-1	c 37	N85-34401 *
NASA-CASE-MFS-22102-1	c 54	N74-20725 *	NASA-CASE-MFS-23659-1	c 33	N79-17133 *	NASA-CASE-MFS-25910-1	c 39	N86-20841 *
NASA-CASE-MFS-22129-1	c 33	N75-18477 *	NASA-CASE-MFS-23674-1	c 24	N81-29163 *	NASA-CASE-MFS-25942-1	c 74	N86-20124 *
NASA-CASE-MFS-22133-1	c 33	N74-26977 *	NASA-CASE-MFS-23675-1	c 89	N79-10969 *	NASA-CASE-MFS-25946-1	c 20	N86-26368 *
NASA-CASE-MFS-22145-1	c 75	N75-13625 *	NASA-CASE-MFS-23696-1	c 54	N81-26718 *	NASA-CASE-MFS-25949-1	c 37	N86-19603 *
NASA-CASE-MFS-22145-2	c 75	N76-17951 *	NASA-CASE-MFS-23717-1	c 52	N81-25660 *	NASA-CASE-MFS-25956-1	c 37	N87-21333 *
NASA-CASE-MFS-22189-1	c 35	N75-19615 *	NASA-CASE-MFS-23720-1	c 43	N80-23711 *	NASA-CASE-MFS-25962-1	c 09	N89-25242 *
NASA-CASE-MFS-22208-1	c 33	N75-26244 *	NASA-CASE-MFS-23720-2	c 43	N80-14423 *	NASA-CASE-MFS-25963-1	c 35	N86-20750 *
NASA-CASE-MFS-22234-1	c 32	N79-10264 *	NASA-CASE-MFS-23720-3	c 43	N79-25443 *	NASA-CASE-MFS-25964-2	c 37	N87-22977 *
NASA-CASE-MFS-22283-1	c 37	N75-33395 *	NASA-CASE-MFS-23721-1	c 31	N79-28370 *	NASA-CASE-MFS-25966-1	c 16	N86-26352 *
NASA-CASE-MFS-22287-1	c 75	N76-14931 *	NASA-CASE-MFS-23725-1	c 43	N79-31706 *	NASA-CASE-MFS-25978-1	c 44	N87-21410 *
NASA-CASE-MFS-22323-1	c 37	N76-14463 *	NASA-CASE-MFS-23726-1	c 43	N79-26439 *	NASA-CASE-MFS-25981-1	c 35	N87-14670 *
NASA-CASE-MFS-22324-1	c 27	N75-27160 *	NASA-CASE-MFS-23727-1	c 44	N80-14473 *	NASA-CASE-MFS-25989-1	c 20	N87-14420 *
NASA-CASE-MFS-22342-1	c 33	N75-30428 *	NASA-CASE-MFS-23775-1	c 44	N82-16474 *	NASA-CASE-MFS-26000-1	c 74	N87-14971 *
NASA-CASE-MFS-22343-1	c 33	N74-34638 *	NASA-CASE-MFS-23776-1	c 33	N82-28545 *	NASA-CASE-MFS-26002-1-CU	c 35	N86-26598 #
NASA-CASE-MFS-22355-1	c 23	N76-15268 *	NASA-CASE-MFS-23777-1	c 37	N80-32716 *	NASA-CASE-MFS-26008-1-CU	c 76	N88-14835 *
NASA-CASE-MFS-22356-1	c 23	N75-30256 *	NASA-CASE-MFS-23816-1	c 26	N80-23419 *	NASA-CASE-MFS-26009-1-SB	c 54	N88-24163 *
NASA-CASE-MFS-22409-1	c 74	N78-15880 *	NASA-CASE-MFS-23825-1	c 51	N81-32829 *	NASA-CASE-MFS-26011-1-SB	c 52	N87-24874 *
NASA-CASE-MFS-22411-1	c 37	N74-21058 *	NASA-CASE-MFS-23828-1	c 33	N82-26569 *	NASA-CASE-MFS-26042-1-SB	c 37	N91-14613 *
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NASA-CASE-MSC-12259-1	c 07	N70-12616 *	NASA-CASE-MSC-14131-1	c 33	N75-19515 *	NASA-CASE-MSC-18627-1	c 74	N82-30071 *
NASA-CASE-MSC-12259-2	c 07	N72-33146 *	NASA-CASE-MSC-14143-1	c 77	N75-20139 *	NASA-CASE-MSC-18675-1	c 32	N84-22820 *
NASA-CASE-MSC-12279-1	c 15	N70-35679 *	NASA-CASE-MSC-14180-1	c 52	N76-14757 *	NASA-CASE-MSC-18723-1	c 35	N83-21312 *
NASA-CASE-MSC-12279	c 15	N72-17450 *	NASA-CASE-MSC-14182-1	c 27	N76-14264 *	NASA-CASE-MSC-18736-1	c 24	N83-13172 *
NASA-CASE-MSC-12280	c 27	N71-16348 *	NASA-CASE-MSC-14187-1	c 35	N74-32879 *	NASA-CASE-MSC-18737-1	c 24	N83-13171 *
NASA-CASE-MSC-12293-1	c 14	N72-27411 *	NASA-CASE-MSC-14219-1	c 32	N74-27612 *	NASA-CASE-MSC-18741-1	c 27	N82-29456 *
NASA-CASE-MSC-12297	c 14	N72-23457 *	NASA-CASE-MSC-14240-1	c 33	N75-14957 *	NASA-CASE-MSC-18742-1	c 37	N82-26673 *
NASA-CASE-MSC-12324-1	c 05	N72-22093 *	NASA-CASE-MSC-14245-1	c 18	N75-27041 *	NASA-CASE-MSC-18759-1	c 52	N83-27578 *
NASA-CASE-MSC-12327-1	c 35	N77-27368 *	NASA-CASE-MSC-14270-1	c 27	N76-22377 *	NASA-CASE-MSC-18761-1	c 52	N83-27577 *
NASA-CASE-MSC-12357	c 15	N73-13249 *	NASA-CASE-MSC-14270-2	c 27	N76-23426 *	NASA-CASE-MSC-18791-1	c 37	N83-36482 *
NASA-CASE-MSC-12363-1	c 14	N72-26431 *	NASA-CASE-MSC-14273-1	c 34	N75-33342 *	NASA-CASE-MSC-18794-1	c 44	N83-14693 *
NASA-CASE-MSC-12372-1	c 31	N72-25842 *	NASA-CASE-MSC-14276-1	c 52	N77-14737 *	NASA-CASE-MSC-18807-1	c 37	N83-36483 *
NASA-CASE-MSC-12389	c 33	N71-29052 *	NASA-CASE-MSC-14331-1	c 27	N76-24405 *	NASA-CASE-MSC-18808-1	c 32	N90-20280 *
NASA-CASE-MSC-12390	c 27	N71-29155 *	NASA-CASE-MSC-14331-2	c 27	N78-17213 *	NASA-CASE-MSC-18832-1	c 27	N83-18908 *
NASA-CASE-MSC-12391	c 30	N73-12884 *	NASA-CASE-MSC-14331-3	c 27	N78-32262 *	NASA-CASE-MSC-18852-1	c 37	N85-29283 *
NASA-CASE-MSC-12393-1	c 02	N73-26006 *	NASA-CASE-MSC-14339-1	c 05	N75-24716 *	NASA-CASE-MSC-18866-1	c 35	N85-29213 *
NASA-CASE-MSC-12394-1	c 08	N74-10942 *	NASA-CASE-MSC-14428-1	c 23	N77-17161 *	NASA-CASE-MSC-18929-1	c 39	N83-20280 *
NASA-CASE-MSC-12395	c 09	N72-25257 *	NASA-CASE-MSC-14435-1	c 37	N76-18455 *	NASA-CASE-MSC-18934-3	c 24	N82-26387 *
NASA-CASE-MSC-12396-1	c 03	N73-31988 *	NASA-CASE-MSC-14472-1	c 43	N77-10584 *	NASA-CASE-MSC-18936-1	c 35	N83-29652 *
NASA-CASE-MSC-12397-1	c 05	N72-25119 *	NASA-CASE-MSC-14557-1	c 32	N76-16249 *	NASA-CASE-MSC-18969-1	c 18	N84-22605 *
NASA-CASE-MSC-12398	c 05	N72-20098 *	NASA-CASE-MSC-14558-1	c 32	N75-21486 *	NASA-CASE-MSC-19095-1	c 37	N75-19683 *
NASA-CASE-MSC-12404-1	c 23	N73-13661 *	NASA-CASE-MSC-14623-1	c 52	N77-28717 *	NASA-CASE-MSC-19372-1	c 39	N76-31562 *
			NASA-CASE-MSC-14632-1	c 54	N78-14784 *	NASA-CASE-MSC-19442-1	c 74	N77-10899 *

NASA-CASE-MSC-19514-1	c 37	N79-20377 *	NASA-CASE-MSC-21366-1	c 54	N90-25498 *	NASA-CASE-NPO-10303	c 07	N72-22127 *
NASA-CASE-MSC-19535-1	c 37	N77-32499 *	NASA-CASE-MSC-21372-1	c 35	N89-12842 *	NASA-CASE-NPO-10309	c 15	N69-23190 *
NASA-CASE-MSC-19536-1	c 37	N77-22482 *	NASA-CASE-MSC-21379-1-SB	c 61	N90-27340 *	NASA-CASE-NPO-10311	c 31	N71-15643 *
NASA-CASE-MSC-19568-1	c 34	N78-25350 *	NASA-CASE-MSC-21381-1	c 63	N91-13944 *	NASA-CASE-NPO-10316-1	c 37	N77-22479 *
NASA-CASE-MSC-19666-1	c 37	N78-17383 *	NASA-CASE-MSC-21386-1	c 18	N90-20126 *	NASA-CASE-NPO-10320	c 14	N71-17655 *
NASA-CASE-MSC-19672-1	c 38	N79-14398 *	NASA-CASE-MSC-21387-1	c 61	N90-16411 *	NASA-CASE-NPO-10331	c 09	N71-26701 *
NASA-CASE-MSC-19693-1	c 26	N78-24333 *	NASA-CASE-MSC-21408-1	c 37	N91-14607 *	NASA-CASE-NPO-10337	c 14	N71-15604 *
NASA-CASE-MSC-19706-1	c 09	N78-31129 *	NASA-CASE-MSC-21416-1	c 74	N91-14000 *	NASA-CASE-NPO-10342	c 10	N71-33407 *
NASA-CASE-MSC-20036-1	c 76	N85-33826 *	NASA-CASE-MSC-21420-1	c 18	N90-26858 *	NASA-CASE-NPO-10343	c 07	N71-27341 *
NASA-CASE-MSC-20078-3	c 52	N91-14709 *	NASA-CASE-MSC-21428-1	c 33	N91-14537 *	NASA-CASE-NPO-10344	c 10	N71-26544 *
NASA-CASE-MSC-20080-1	c 37	N85-30334 *	NASA-CASE-MSC-21434-1	c 37	N90-17138 *	NASA-CASE-NPO-10348	c 10	N71-12554 *
NASA-CASE-MSC-20112-1	c 37	N85-20338 *	NASA-CASE-MSC-21436-1	c 37	N90-21390 *	NASA-CASE-NPO-10351	c 08	N71-12503 *
NASA-CASE-MSC-20112-2	c 37	N85-34403 *	NASA-CASE-MSC-21460-1	c 54	N91-13879 *	NASA-CASE-NPO-10373	c 03	N71-18698 *
NASA-CASE-MSC-20148-1	c 37	N85-29284 *	NASA-CASE-MSC-21465-1	c 61	N91-14741 *	NASA-CASE-NPO-10388	c 07	N71-24622 *
NASA-CASE-MSC-20162-1	c 37	N87-17036 *	NASA-CASE-MSC-21469-1	c 37	N90-26340 *	NASA-CASE-NPO-10401	c 03	N72-20033 *
NASA-CASE-MSC-20181-1	c 33	N88-23941 *	NASA-CASE-MSC-21470-1	c 09	N90-16771 *	NASA-CASE-NPO-10404	c 03	N71-12255 *
NASA-CASE-MSC-20187-1	c 33	N87-25531 *	NASA-CASE-MSC-21476-1	c 37	N90-17137 *	NASA-CASE-NPO-10412	c 09	N71-26421 *
NASA-CASE-MSC-20202-1	c 54	N84-16803 *	NASA-CASE-MSC-21481-1	c 60	N91-13890 *	NASA-CASE-NPO-10416	c 12	N71-27332 *
NASA-CASE-MSC-20206-1	c 25	N86-27431 *	NASA-CASE-MSC-21487-1	c 25	N90-16887 *	NASA-CASE-NPO-10417	c 16	N71-33410 *
NASA-CASE-MSC-20250-1	c 35	N86-19581 *	NASA-CASE-MSC-21500-1	c 35	N91-13683 *	NASA-CASE-NPO-10424-1	c 27	N81-24258 *
NASA-CASE-MSC-20254-1	c 16	N84-22601 *	NASA-CASE-MSC-21502-1	c 37	N90-26341 *	NASA-CASE-NPO-10431	c 15	N71-29132 *
NASA-CASE-MSC-20258-1	c 60	N84-28492 *	NASA-CASE-MSC-21503-1	c 27	N90-16925 *	NASA-CASE-NPO-10440	c 15	N72-21466 *
NASA-CASE-MSC-20261-1	c 54	N84-28484 *	NASA-CASE-MSC-21504-1	c 18	N90-26859 *	NASA-CASE-NPO-10447	c 06	N70-11252 *
NASA-CASE-MSC-20261-2	c 54	N84-23113 *	NASA-CASE-MSC-21509-1	c 74	N91-13997 *	NASA-CASE-NPO-10467	c 23	N71-26654 *
NASA-CASE-MSC-20275-1	c 35	N85-21595 *	NASA-CASE-MSC-21534-1	c 18	N90-26860 *	NASA-CASE-NPO-10468	c 23	N71-33229 *
NASA-CASE-MSC-20304-1	c 37	N82-31690 *	NASA-CASE-MSC-21536-1	c 18	N91-13483 *	NASA-CASE-NPO-10539	c 07	N71-11285 *
NASA-CASE-MSC-20319-1	c 37	N85-21649 *	NASA-CASE-MSC-21539-1	c 37	N91-14610 *	NASA-CASE-NPO-10542	c 09	N72-27228 *
NASA-CASE-MSC-20418-1	c 74	N86-20126 *	NASA-CASE-MSC-21540-1	c 37	N90-26342 *	NASA-CASE-NPO-10548	c 16	N71-24831 *
NASA-CASE-MSC-20467-1	c 35	N88-23966 *	NASA-CASE-MSC-21542-1	c 20	N90-26073 *	NASA-CASE-NPO-10556	c 14	N71-27185 *
NASA-CASE-MSC-20475-1	c 37	N87-17037 *	NASA-CASE-MSC-21549-1	c 34	N91-13657 *	NASA-CASE-NPO-10557	c 27	N78-17214 *
NASA-CASE-MSC-20476-2	c 20	N89-25279 *	NASA-CASE-MSC-21559-1	c 51	N91-13860 *	NASA-CASE-NPO-10560	c 08	N72-22166 *
NASA-CASE-MSC-20497-1	c 34	N85-29180 *	NASA-CASE-MSC-21560-1	c 51	N90-18852 *	NASA-CASE-NPO-10567	c 08	N71-24633 *
NASA-CASE-MSC-20543-1	c 18	N84-22610 *	NASA-CASE-MSC-21585-1	c 51	N91-13857 *	NASA-CASE-NPO-10575	c 03	N72-25019 *
NASA-CASE-MSC-20549-2	c 35	N88-24927 *	NASA-CASE-MSC-21589-1	c 54	N91-16566 *	NASA-CASE-NPO-10591	c 03	N72-22041 *
NASA-CASE-MSC-20622-1	c 25	N86-19413 *	NASA-CASE-MSC-21629-1	c 54	N89-20927 *	NASA-CASE-NPO-10595	c 10	N71-25917 *
NASA-CASE-MSC-20635-1	c 18	N87-14373 *	NASA-CASE-MSC-21662-1	c 51	N91-17531 *	NASA-CASE-NPO-10596	c 06	N71-25929 *
NASA-CASE-MSC-20653-1	c 35	N86-26595 *	NASA-CASE-MSC-21671-1	c 37	N91-13723 *	NASA-CASE-NPO-10606	c 15	N72-25451 *
NASA-CASE-MSC-20676-1	c 18	N86-24729 *	NASA-CASE-MSC-21675-1	c 52	N91-13865 *	NASA-CASE-NPO-10607	c 09	N71-27232 *
NASA-CASE-MSC-20761-1	c 37	N87-15465 *	NASA-CASE-MSC-21703-1	c 31	N91-13580 *	NASA-CASE-NPO-10617-1	c 35	N74-22095 *
NASA-CASE-MSC-20782-1	c 27	N90-23566 *	NASA-CASE-MSC-21729-1	c 34	N91-17340 *	NASA-CASE-NPO-10619-1	c 35	N77-21393 *
NASA-CASE-MSC-20783-1	c 35	N86-20756 *	NASA-CASE-MSC-21737-1	c 61	N91-13911 *	NASA-CASE-NPO-10625	c 09	N71-26182 *
NASA-CASE-MSC-20797-1	c 37	N87-23981 *	NASA-CASE-MSC-25707-1	c 35	N85-29214 *	NASA-CASE-NPO-10629	c 08	N72-18184 *
NASA-CASE-MSC-20812-1	c 34	N86-27593 *	NASA-CASE-MSC-90153-2	c 05	N72-25120 *	NASA-CASE-NPO-10633	c 03	N72-28025 *
NASA-CASE-MSC-20821-1	c 17	N87-25348 *				NASA-CASE-NPO-10634	c 23	N72-25619 *
NASA-CASE-MSC-20840-1	c 34	N88-29132 *	NASA-CASE-NPO-08835-1	c 27	N78-33228 *	NASA-CASE-NPO-10636	c 08	N72-25210 *
NASA-CASE-MSC-20841-1	c 34	N87-22950 *	NASA-CASE-NPO-10003	c 10	N71-26415 *	NASA-CASE-NPO-10637	c 15	N72-12409 *
NASA-CASE-MSC-20841-2	c 34	N88-23958 *	NASA-CASE-NPO-10034	c 15	N71-17685 *	NASA-CASE-NPO-10646	c 15	N71-28467 *
NASA-CASE-MSC-20857-1	c 37	N87-17035 *	NASA-CASE-NPO-10037	c 09	N71-19610 *	NASA-CASE-NPO-10649	c 07	N71-24840 *
NASA-CASE-MSC-20865-1	c 32	N87-18692 *	NASA-CASE-NPO-10046	c 28	N72-17843 *	NASA-CASE-NPO-10671	c 15	N72-20443 *
NASA-CASE-MSC-20867-1	c 36	N88-24958 *	NASA-CASE-NPO-10051	c 18	N71-24934 *	NASA-CASE-NPO-10677	c 05	N72-11084 *
NASA-CASE-MSC-20873-1-SB	c 32	N89-11961 *	NASA-CASE-NPO-10064	c 15	N71-17693 *	NASA-CASE-NPO-10679	c 15	N72-21462 *
NASA-CASE-MSC-20900-1	c 37	N88-30131 *	NASA-CASE-NPO-10066	c 09	N71-18598 *	NASA-CASE-NPO-10680	c 31	N73-14855 *
NASA-CASE-MSC-20906-2	c 35	N89-15379 *	NASA-CASE-NPO-10068	c 08	N71-19288 *	NASA-CASE-NPO-10682	c 15	N70-34699 *
NASA-CASE-MSC-20907-1	c 37	N87-18818 *	NASA-CASE-NPO-10070	c 15	N71-27372 *	NASA-CASE-NPO-10691	c 14	N71-26199 *
NASA-CASE-MSC-20910-1	c 37	N87-25582 *	NASA-CASE-NPO-10096	c 07	N71-24583 *	NASA-CASE-NPO-10694	c 09	N72-20200 *
NASA-CASE-MSC-20912-1	c 32	N88-26568 *	NASA-CASE-NPO-10109	c 03	N71-11049 *	NASA-CASE-NPO-10700	c 07	N71-33613 *
NASA-CASE-MSC-20929-1	c 51	N91-14703 *	NASA-CASE-NPO-10112	c 08	N71-12502 *	NASA-CASE-NPO-10701	c 06	N71-28620 *
NASA-CASE-MSC-20946-1	c 34	N87-28867 *	NASA-CASE-NPO-10117	c 15	N71-15608 *	NASA-CASE-NPO-10704	c 15	N72-20445 *
NASA-CASE-MSC-20964-1	c 60	N87-14863 *	NASA-CASE-NPO-10118	c 07	N71-24741 *	NASA-CASE-NPO-10711-1	c 35	N77-21392 *
NASA-CASE-MSC-20979-1	c 37	N87-22985 *	NASA-CASE-NPO-10122	c 12	N71-17631 *	NASA-CASE-NPO-10714	c 06	N69-31244 *
NASA-CASE-MSC-20985-1	c 18	N88-26398 *	NASA-CASE-NPO-10123	c 15	N71-24835 *	NASA-CASE-NPO-10716	c 09	N71-24892 *
NASA-CASE-MSC-21025-1	c 31	N87-25495 *	NASA-CASE-NPO-10138	c 33	N71-16357 *	NASA-CASE-NPO-10721	c 15	N72-27484 *
NASA-CASE-MSC-21025-2	c 54	N91-14724 *	NASA-CASE-NPO-10140	c 07	N71-24742 *	NASA-CASE-NPO-10722	c 09	N72-20199 *
NASA-CASE-MSC-21025-4	c 54	N91-14723 *	NASA-CASE-NPO-10141	c 11	N71-24964 *	NASA-CASE-NPO-10737	c 28	N72-11709 *
NASA-CASE-MSC-21056-1	c 18	N88-23827 *	NASA-CASE-NPO-10143	c 10	N71-26326 *	NASA-CASE-NPO-10743	c 08	N72-21199 *
NASA-CASE-MSC-21059-2	c 35	N91-15511 *	NASA-CASE-NPO-10144	c 14	N71-17701 *	NASA-CASE-NPO-10745	c 08	N72-22164 *
NASA-CASE-MSC-21082-1	c 27	N87-29672 *	NASA-CASE-NPO-10150	c 08	N71-24650 *	NASA-CASE-NPO-10747	c 03	N72-22042 *
NASA-CASE-MSC-21094-1	c 35	N88-24941 *	NASA-CASE-NPO-10151	c 37	N78-17386 *	NASA-CASE-NPO-10748	c 08	N72-20177 *
NASA-CASE-MSC-21095-1	c 37	N89-12866 *	NASA-CASE-NPO-10158	c 33	N71-16356 *	NASA-CASE-NPO-10753	c 03	N72-26031 *
NASA-CASE-MSC-21096-1	c 18	N89-12621 *	NASA-CASE-NPO-10166-1	c 07	N73-22076 *	NASA-CASE-NPO-10755	c 15	N71-27084 *
NASA-CASE-MSC-21117-1	c 18	N88-28958 *	NASA-CASE-NPO-10166-2	c 35	N76-16391 *	NASA-CASE-NPO-10758	c 14	N73-14427 *
NASA-CASE-MSC-21117-2	c 18	N89-28554 *	NASA-CASE-NPO-10169	c 10	N71-24844 *	NASA-CASE-NPO-10760	c 09	N72-25254 *
NASA-CASE-MSC-21132-1	c 37	N88-29181 *	NASA-CASE-NPO-10173	c 15	N71-24696 *	NASA-CASE-NPO-10764-1	c 14	N73-14428 *
NASA-CASE-MSC-21166-1	c 35	N87-25555 *	NASA-CASE-NPO-10174	c 14	N71-18465 *	NASA-CASE-NPO-10764-2	c 35	N75-25122 *
NASA-CASE-MSC-21169-1	c 27	N89-29539 *	NASA-CASE-NPO-10175	c 14	N71-18625 *	NASA-CASE-NPO-10765	c 06	N72-20121 *
NASA-CASE-MSC-21170-1	c 17	N91-14371 *	NASA-CASE-NPO-10185	c 10	N71-26339 *	NASA-CASE-NPO-10767-1	c 06	N73-33076 *
NASA-CASE-MSC-21171-1	c 37	N88-23973 *	NASA-CASE-NPO-10188	c 03	N71-20273 *	NASA-CASE-NPO-10767-2	c 06	N72-27151 *
NASA-CASE-MSC-21207-1	c 37	N88-29180 *	NASA-CASE-NPO-10189-1	c 33	N77-21314 *	NASA-CASE-NPO-10768-2	c 06	N72-27144 *
NASA-CASE-MSC-21211-1	c 18	N89-28553 *	NASA-CASE-NPO-10194	c 03	N71-20407 *	NASA-CASE-NPO-10768	c 06	N71-27254 *
NASA-CASE-MSC-21253-1	c 31	N90-20254 *	NASA-CASE-NPO-10198	c 09	N71-24806 *	NASA-CASE-NPO-10769	c 08	N72-11171 *
NASA-CASE-MSC-21271-1	c 34	N90-21999 *	NASA-CASE-NPO-10199	c 09	N72-17156 *	NASA-CASE-NPO-10774	c 06	N72-17095 *
NASA-CASE-MSC-21293-1	c 51	N89-14666 *	NASA-CASE-NPO-10201	c 08	N71-18694 *	NASA-CASE-NPO-10778	c 14	N72-11364 *
NASA-CASE-MSC-21294-1	c 51	N89-13131 *	NASA-CASE-NPO-10214	c 10	N71-26577 *	NASA-CASE-NPO-10781-1	c 33	N77-21314 *
NASA-CASE-MSC-21299-1	c 20	N88-24684 *	NASA-CASE-NPO-10230	c 09	N71-12520 *	NASA-CASE-NPO-10790-1	c 33	N77-21316 *
NASA-CASE-MSC-21327-1	c 18	N90-11798 *	NASA-CASE-NPO-10231	c 07	N71-26101 *	NASA-CASE-NPO-10796	c 15	N71-27068 *
NASA-CASE-MSC-21330-1	c 16	N88-24660 *	NASA-CASE-NPO-10233-1	c 74	N78-33913 *	NASA-CASE-NPO-10808	c 15	N71-27432 *
NASA-CASE-MSC-21332-1	c 03	N91-15142 *	NASA-CASE-NPO-10234	c 06	N72-17094 *	NASA-CASE-NPO-10810	c 14	N71-27323 *
NASA-CASE-MSC-21334-1	c 32	N89-25360 *	NASA-CASE-NPO-10242	c 09	N71-24803 *	NASA-CASE-NPO-10812	c 15	N73-13464 *
NASA-CASE-MSC-21348-1	c 62	N91-14769 *	NASA-CASE-NPO-10244	c 15	N72-26371 *	NASA-CASE-NPO-10817-1	c 08	N73-30135 *
NASA-CASE-MSC-21354-1	c 37	N88-24969 *	NASA-CASE-NPO-10250	c 23	N71-16212 *	NASA-CASE-NPO-10821	c 03	N71-19545 *
NASA-CASE-MSC-21356-1	c 18	N90-19278 *	NASA-CASE-NPO-10251	c 10	N71-27365 *	NASA-CASE-NPO-10828	c 33	N72-17948 *
NASA-CASE-MSC-21360-1	c 18	N91-14374 *	NASA-CASE-NPO-10271	c 17	N71-16393 *	NASA-CASE-NPO-10830-1	c 27	N81-15104 *
NASA-CASE-MSC-21361-1	c 51	N89-25557 *	NASA-CASE-NPO-10298	c 12	N71-17661 *	NASA-CASE-NPO-10831	c 33	N72-20915 *
NASA-CASE-MSC-21364-1	c 54	N89-13889 *	NASA-CASE-NPO-10300	c 14	N71-17662 *	NASA-CASE-NPO-10832	c 14	N72-21405 *
NASA-CASE-MSC-21365-1	c 37	N90-20408 *	NASA-CASE-NPO-10301	c 07	N72-11148 *	NASA-CASE-NPO-10844	c 07	N72-20140 *
NASA-CASE-MSC-21366-1	c 54	N89-12206 *	NASA-CASE-NPO-10302	c 10	N71-26142 *	NASA-CASE-NPO-10851	c 07	N71-24613 *

NASA-CASE-NPO-10857-1	c 33	N80-14330 *	NASA-CASE-NPO-11458	c 28	N72-23810 *	NASA-CASE-NPO-13138-1	c 33	N74-17927 *
NASA-CASE-NPO-10862	c 06	N72-22107 *	NASA-CASE-NPO-11479	c 15	N73-13462 *	NASA-CASE-NPO-13139-1	c 60	N76-21914 *
NASA-CASE-NPO-10863-2	c 06	N72-25152 *	NASA-CASE-NPO-11481	c 21	N73-13644 *	NASA-CASE-NPO-13140-1	c 32	N75-24982 *
NASA-CASE-NPO-10863	c 06	N70-11251 *	NASA-CASE-NPO-11493	c 14	N73-12447 *	NASA-CASE-NPO-13147-1	c 36	N77-25502 *
NASA-CASE-NPO-10866-1	c 28	N79-14228 *	NASA-CASE-NPO-11497	c 08	N73-25206 *	NASA-CASE-NPO-13157-1	c 37	N74-32918 *
NASA-CASE-NPO-10870-1	c 33	N77-22386 *	NASA-CASE-NPO-11510-1	c 33	N77-21315 *	NASA-CASE-NPO-13159-1	c 33	N74-17928 *
NASA-CASE-NPO-10872-1	c 35	N79-16246 *	NASA-CASE-NPO-11515-1	c 33	N77-13315 *	NASA-CASE-NPO-13160-1	c 35	N74-18090 *
NASA-CASE-NPO-10883	c 31	N72-22874 *	NASA-CASE-NPO-11548	c 07	N73-26118 *	NASA-CASE-NPO-13170-1	c 35	N76-14430 *
NASA-CASE-NPO-10890	c 11	N73-12265 *	NASA-CASE-NPO-11556	c 12	N72-25292 *	NASA-CASE-NPO-13171-1	c 32	N74-11000 *
NASA-CASE-NPO-10893	c 27	N73-22710 *	NASA-CASE-NPO-11559	c 28	N73-24784 *	NASA-CASE-NPO-13175-1	c 36	N75-31427 *
NASA-CASE-NPO-10985	c 14	N73-20478 *	NASA-CASE-NPO-11569	c 10	N73-26229 *	NASA-CASE-NPO-13201-1	c 37	N75-15050 *
NASA-CASE-NPO-10998-1	c 06	N73-32029 *	NASA-CASE-NPO-11572	c 07	N73-16121 *	NASA-CASE-NPO-13205-1	c 31	N74-32917 *
NASA-CASE-NPO-10999-1	c 06	N73-32029 *	NASA-CASE-NPO-11575-1	c 74	N81-19896 *	NASA-CASE-NPO-13214-1	c 35	N75-25123 *
NASA-CASE-NPO-11001	c 07	N72-21118 *	NASA-CASE-NPO-11593-1	c 07	N73-28012 *	NASA-CASE-NPO-13215-1	c 35	N75-25123 *
NASA-CASE-NPO-11002	c 14	N72-22441 *	NASA-CASE-NPO-11609-2	c 27	N77-31308 *	NASA-CASE-NPO-13217-1	c 32	N75-26194 *
NASA-CASE-NPO-11012	c 15	N72-11391 *	NASA-CASE-NPO-11623-1	c 71	N74-31148 *	NASA-CASE-NPO-13231-1	c 45	N75-27585 *
NASA-CASE-NPO-11013	c 11	N72-22247 *	NASA-CASE-NPO-11628-1	c 07	N73-30113 *	NASA-CASE-NPO-13237-1	c 44	N76-18641 *
NASA-CASE-NPO-11016	c 08	N72-31226 *	NASA-CASE-NPO-11630	c 08	N72-33172 *	NASA-CASE-NPO-13247-1	c 76	N79-16678 *
NASA-CASE-NPO-11018	c 08	N72-21200 *	NASA-CASE-NPO-11631	c 10	N73-12244 *	NASA-CASE-NPO-13253-1	c 37	N75-18573 *
NASA-CASE-NPO-11021	c 03	N72-20032 *	NASA-CASE-NPO-11659-1	c 35	N74-11283 *	NASA-CASE-NPO-13263-1	c 12	N75-24774 *
NASA-CASE-NPO-11023	c 09	N72-17155 *	NASA-CASE-NPO-11661	c 07	N73-14130 *	NASA-CASE-NPO-13274-1	c 25	N79-10163 *
NASA-CASE-NPO-11031	c 07	N71-33606 *	NASA-CASE-NPO-11682-1	c 35	N74-15127 *	NASA-CASE-NPO-13281-1	c 37	N75-13266 *
NASA-CASE-NPO-11036	c 15	N72-24522 *	NASA-CASE-NPO-11686	c 14	N73-25462 *	NASA-CASE-NPO-13282	c 38	N78-17396 *
NASA-CASE-NPO-11059	c 15	N72-17454 *	NASA-CASE-NPO-11703-1	c 10	N73-32144 *	NASA-CASE-NPO-13283	c 38	N78-17395 *
NASA-CASE-NPO-11064	c 07	N72-11150 *	NASA-CASE-NPO-11707	c 07	N73-25161 *	NASA-CASE-NPO-13292-1	c 32	N75-15854 *
NASA-CASE-NPO-11078	c 09	N72-25262 *	NASA-CASE-NPO-11738-1	c 09	N73-30185 *	NASA-CASE-NPO-13303-1	c 20	N75-24837 *
NASA-CASE-NPO-11082	c 08	N72-22167 *	NASA-CASE-NPO-11743-1	c 28	N74-27425 *	NASA-CASE-NPO-13308-1	c 36	N75-30524 *
NASA-CASE-NPO-11087	c 23	N71-29125 *	NASA-CASE-NPO-11749	c 14	N73-28486 *	NASA-CASE-NPO-13309-1	c 25	N81-19244 *
NASA-CASE-NPO-11088	c 08	N71-29034 *	NASA-CASE-NPO-11751	c 07	N73-24176 *	NASA-CASE-NPO-13313-1	c 54	N75-27761 *
NASA-CASE-NPO-11091	c 18	N72-22567 *	NASA-CASE-NPO-11758-1	c 31	N74-23065 *	NASA-CASE-NPO-13321-1	c 32	N75-26195 *
NASA-CASE-NPO-11095	c 15	N72-25455 *	NASA-CASE-NPO-11771	c 03	N73-20040 *	NASA-CASE-NPO-13327-1	c 35	N75-23910 *
NASA-CASE-NPO-11103-1	c 35	N77-27367 *	NASA-CASE-NPO-11775	c 26	N72-28761 *	NASA-CASE-NPO-13342-1	c 37	N76-16446 *
NASA-CASE-NPO-11104	c 08	N72-22165 *	NASA-CASE-NPO-11806-1	c 44	N74-19693 *	NASA-CASE-NPO-13342-2	c 44	N76-29700 *
NASA-CASE-NPO-11106	c 14	N70-34697 *	NASA-CASE-NPO-11820-1	c 32	N74-19788 *	NASA-CASE-NPO-13345-1	c 37	N75-19684 *
NASA-CASE-NPO-11118	c 03	N72-25021 *	NASA-CASE-NPO-11821-1	c 08	N73-26175 *	NASA-CASE-NPO-13346-1	c 36	N76-29575 *
NASA-CASE-NPO-11120-1	c 34	N74-18552 *	NASA-CASE-NPO-11850-1	c 32	N74-12912 *	NASA-CASE-NPO-13348-1	c 33	N75-31332 *
NASA-CASE-NPO-11129	c 09	N72-33204 *	NASA-CASE-NPO-11856-1	c 36	N74-15145 *	NASA-CASE-NPO-13360-1	c 37	N75-25185 *
NASA-CASE-NPO-11130	c 08	N72-20176 *	NASA-CASE-NPO-11861-1	c 36	N74-20009 *	NASA-CASE-NPO-13374-1	c 33	N75-19524 *
NASA-CASE-NPO-11133	c 10	N72-20223 *	NASA-CASE-NPO-11868	c 10	N73-20254 *	NASA-CASE-NPO-13385-1	c 33	N76-18345 *
NASA-CASE-NPO-11134	c 09	N72-21246 *	NASA-CASE-NPO-11880	c 28	N73-24783 *	NASA-CASE-NPO-13386-1	c 54	N75-27578 *
NASA-CASE-NPO-11138	c 03	N70-34646 *	NASA-CASE-NPO-11905-1	c 33	N74-12887 *	NASA-CASE-NPO-13388-1	c 35	N76-16390 *
NASA-CASE-NPO-11140	c 15	N72-17455 *	NASA-CASE-NPO-11919-1	c 35	N74-11284 *	NASA-CASE-NPO-13391-1	c 34	N76-27515 *
NASA-CASE-NPO-11147	c 14	N72-27408 *	NASA-CASE-NPO-11921-1	c 32	N74-30523 *	NASA-CASE-NPO-13396-1	c 35	N76-18401 *
NASA-CASE-NPO-11150	c 35	N78-17359 *	NASA-CASE-NPO-11932-1	c 35	N74-23040 *	NASA-CASE-NPO-13402-1	c 37	N76-18457 *
NASA-CASE-NPO-11156-2	c 33	N75-31331 *	NASA-CASE-NPO-11941-1	c 10	N73-27171 *	NASA-CASE-NPO-13422-1	c 60	N76-14818 *
NASA-CASE-NPO-11161	c 08	N72-25207 *	NASA-CASE-NPO-11942-1	c 33	N73-32818 *	NASA-CASE-NPO-13423-1	c 33	N75-31329 *
NASA-CASE-NPO-11177	c 15	N72-17453 *	NASA-CASE-NPO-11945-1	c 36	N76-18427 *	NASA-CASE-NPO-13426-1	c 33	N75-31330 *
NASA-CASE-NPO-11190	c 03	N71-34044 *	NASA-CASE-NPO-11948-1	c 33	N74-32712 *	NASA-CASE-NPO-13428-1	c 60	N77-17271 *
NASA-CASE-NPO-11191-1	c 33	N77-22386 *	NASA-CASE-NPO-11951-1	c 37	N74-21065 *	NASA-CASE-NPO-13435-1	c 31	N76-14284 *
NASA-CASE-NPO-11194	c 08	N72-25209 *	NASA-CASE-NPO-11954-1	c 35	N78-29421 *	NASA-CASE-NPO-13436-1	c 37	N76-20480 *
NASA-CASE-NPO-11201	c 14	N72-27409 *	NASA-CASE-NPO-11961-1	c 44	N76-18643 *	NASA-CASE-NPO-13443-1	c 76	N76-20994 *
NASA-CASE-NPO-11202	c 15	N72-25450 *	NASA-CASE-NPO-11962-1	c 33	N74-10194 *	NASA-CASE-NPO-13447-1	c 60	N77-17271 *
NASA-CASE-NPO-11203	c 10	N72-20224 *	NASA-CASE-NPO-11966-1	c 33	N74-19288 *	NASA-CASE-NPO-13449-1	c 36	N75-32441 *
NASA-CASE-NPO-11210	c 11	N72-20244 *	NASA-CASE-NPO-11975-1	c 28	N74-33209 *	NASA-CASE-NPO-13451-1	c 33	N76-14373 *
NASA-CASE-NPO-11213	c 15	N73-20514 *	NASA-CASE-NPO-11978	c 31	N78-17238 *	NASA-CASE-NPO-13459-1	c 31	N77-10229 *
NASA-CASE-NPO-11222	c 15	N72-25456 *	NASA-CASE-NPO-12000	c 27	N72-25699 *	NASA-CASE-NPO-13462-1	c 35	N76-24524 *
NASA-CASE-NPO-11239	c 14	N73-12446 *	NASA-CASE-NPO-12015	c 27	N73-16764 *	NASA-CASE-NPO-13464-1	c 44	N76-18642 *
NASA-CASE-NPO-11243	c 07	N72-20154 *	NASA-CASE-NPO-12061-1	c 27	N76-16228 *	NASA-CASE-NPO-13464-2	c 44	N76-29704 *
NASA-CASE-NPO-11253	c 09	N72-17157 *	NASA-CASE-NPO-12070-1	c 28	N73-32606 *	NASA-CASE-NPO-13465-1	c 32	N76-31372 *
NASA-CASE-NPO-11264	c 07	N72-25174 *	NASA-CASE-NPO-12072	c 28	N72-22772 *	NASA-CASE-NPO-13474-1	c 45	N76-21742 *
NASA-CASE-NPO-11282	c 10	N73-16205 *	NASA-CASE-NPO-12087-1	c 74	N81-19898 *	NASA-CASE-NPO-13479-1	c 35	N77-10492 *
NASA-CASE-NPO-11283	c 09	N72-25260 *	NASA-CASE-NPO-12106	c 09	N73-15235 *	NASA-CASE-NPO-13482-1	c 44	N78-13526 *
NASA-CASE-NPO-11291-1	c 14	N73-30388 *	NASA-CASE-NPO-12107	c 08	N71-27255 *	NASA-CASE-NPO-13490-1	c 36	N76-31512 *
NASA-CASE-NPO-11302-1	c 07	N73-13149 *	NASA-CASE-NPO-12109	c 11	N72-22245 *	NASA-CASE-NPO-13497-1	c 44	N76-14602 *
NASA-CASE-NPO-11302-2	c 32	N74-10132 *	NASA-CASE-NPO-12119-1	c 52	N75-15270 *	NASA-CASE-NPO-13504-1	c 33	N75-30430 *
NASA-CASE-NPO-11304	c 14	N73-26430 *	NASA-CASE-NPO-12122-1	c 24	N76-14203 *	NASA-CASE-NPO-13506-1	c 35	N76-15435 *
NASA-CASE-NPO-11307-1	c 10	N73-30205 *	NASA-CASE-NPO-12127-1	c 91	N74-13130 *	NASA-CASE-NPO-13510-1	c 44	N77-32581 *
NASA-CASE-NPO-11311	c 14	N72-25414 *	NASA-CASE-NPO-12128-1	c 14	N73-32317 *	NASA-CASE-NPO-13512-1	c 33	N77-10428 *
NASA-CASE-NPO-11317-2	c 36	N74-13205 *	NASA-CASE-NPO-12130-1	c 25	N75-14844 *	NASA-CASE-NPO-13519-1	c 33	N76-19338 *
NASA-CASE-NPO-11322	c 06	N72-25146 *	NASA-CASE-NPO-12131-3	c 37	N80-18400 *	NASA-CASE-NPO-13528-1	c 09	N77-10071 *
NASA-CASE-NPO-11330	c 33	N73-26958 *	NASA-CASE-NPO-12134-1	c 33	N76-31409 *	NASA-CASE-NPO-13530-1	c 25	N81-17187 *
NASA-CASE-NPO-11333	c 08	N72-22162 *	NASA-CASE-NPO-12142-1	c 38	N76-28563 *	NASA-CASE-NPO-13531-1	c 36	N76-24553 *
NASA-CASE-NPO-11336-1	c 76	N79-16678 *	NASA-CASE-NPO-12148-1	c 44	N78-27515 *	NASA-CASE-NPO-13535-1	c 37	N76-31524 *
NASA-CASE-NPO-11337-1	c 74	N81-19896 *	NASA-CASE-NPO-13044-1	c 35	N74-15094 *	NASA-CASE-NPO-13540-1	c 35	N77-14409 *
NASA-CASE-NPO-11338	c 08	N72-25208 *	NASA-CASE-NPO-13050-1	c 36	N75-15029 *	NASA-CASE-NPO-13541-1	c 37	N79-14383 *
NASA-CASE-NPO-11340	c 15	N72-33477 *	NASA-CASE-NPO-13058-1	c 37	N77-22480 *	NASA-CASE-NPO-13543-1	c 32	N77-12240 *
NASA-CASE-NPO-11342	c 09	N72-25248 *	NASA-CASE-NPO-13059-1	c 37	N76-20480 *	NASA-CASE-NPO-13544-1	c 36	N76-18428 *
NASA-CASE-NPO-11358	c 07	N72-25172 *	NASA-CASE-NPO-13063-1	c 25	N76-18245 *	NASA-CASE-NPO-13545-1	c 32	N77-12240 *
NASA-CASE-NPO-11361	c 07	N72-32169 *	NASA-CASE-NPO-13064-1	c 33	N79-11314 *	NASA-CASE-NPO-13550-1	c 36	N77-26477 *
NASA-CASE-NPO-11366	c 11	N73-26238 *	NASA-CASE-NPO-13065-1	c 52	N74-26625 *	NASA-CASE-NPO-13553-1	c 33	N76-32457 *
NASA-CASE-NPO-11369	c 15	N73-13467 *	NASA-CASE-NPO-13067-1	c 60	N76-18800 *	NASA-CASE-NPO-13556-1	c 35	N84-33766 *
NASA-CASE-NPO-11371	c 08	N73-12177 *	NASA-CASE-NPO-13081-1	c 33	N74-22814 *	NASA-CASE-NPO-13560-1	c 44	N77-10636 *
NASA-CASE-NPO-11373	c 13	N72-25323 *	NASA-CASE-NPO-13086-1	c 15	N73-12495 *	NASA-CASE-NPO-13561-1	c 44	N77-10636 *
NASA-CASE-NPO-11377	c 15	N73-27406 *	NASA-CASE-NPO-13087-2	c 44	N76-31666 *	NASA-CASE-NPO-13566-1	c 25	N77-32255 *
NASA-CASE-NPO-11387	c 14	N73-14429 *	NASA-CASE-NPO-13091-1	c 09	N73-12214 *	NASA-CASE-NPO-13567-1	c 44	N76-29701 *
NASA-CASE-NPO-11388	c 03	N72-23048 *	NASA-CASE-NPO-13096-1	c 37	N77-22480 *	NASA-CASE-NPO-13568-1	c 32	N76-21365 *
NASA-CASE-NPO-11403-1	c 33	N77-22386 *	NASA-CASE-NPO-13103-1	c 32	N74-20811 *	NASA-CASE-NPO-13569-2	c 35	N79-14348 *
NASA-CASE-NPO-11406	c 08	N73-12175 *	NASA-CASE-NPO-13105-1	c 37	N74-21060 *	NASA-CASE-NPO-13579-1	c 44	N78-17460 *
NASA-CASE-NPO-11417	c 15	N73-24513 *	NASA-CASE-NPO-13112-1	c 73	N74-26767 *	NASA-CASE-NPO-13579-2	c 44	N79-24433 *
NASA-CASE-NPO-11418-1	c 14	N73-13420 *	NASA-CASE-NPO-13114-2	c 73	N78-28913 *	NASA-CASE-NPO-13579-3	c 44	N79-24432 *
NASA-CASE-NPO-11426	c 07	N73-26119 *	NASA-CASE-NPO-13120-1	c 27	N76-15311 *	NASA-CASE-NPO-13579-4	c 44	N79-14529 *
NASA-CASE-NPO-11429-1	c 74	N77-21941 *	NASA-CASE-NPO-13121-1	c 73	N77-18891 *	NASA-CASE-NPO-13581-2	c 44	N78-31525 *
NASA-CASE-NPO-11432-2	c 35	N74-15090 *	NASA-CASE-NPO-13125-1	c 33	N75-19519 *	NASA-CASE-NPO-13587-1	c 32	N77-32342 *
NASA-CASE-NPO-11437	c 16	N72-28521 *	NASA-CASE-NPO-13127-1	c 35	N74-23040 *	NASA-CASE-NPO-13604-1	c 35	N76-31490 *
NASA-CASE-NPO-11456	c 08	N73-26176 *	NASA-CASE-NPO-13131-1	c 36	N75-19652 *	NASA-CASE-NPO-13606-2	c 35	N80-18364 *
NASA-CASE-NPO-11458A	c 20	N78-32179 *	NASA-CASE-NPO-13137-1	c 27	N80-32514 *	NASA-CASE-NPO-13613-1	c 37	N76-29590 *

NASA-CASE-NPO-13619-1	c 37	N78-16369 *	NASA-CASE-NPO-14066-1	c 74	N79-34011 *	NASA-CASE-NPO-14549-2	c 52	N82-33996 *
NASA-CASE-NPO-13620-1	c 27	N77-30236 *	NASA-CASE-NPO-14078-1	c 72	N80-14877 *	NASA-CASE-NPO-14554-1	c 60	N81-27814 *
NASA-CASE-NPO-13641-1	c 32	N79-24210 *	NASA-CASE-NPO-14079-1	c 25	N80-20334 *	NASA-CASE-NPO-14556-1	c 33	N82-24418 *
NASA-CASE-NPO-13643-1	c 52	N76-29896 *	NASA-CASE-NPO-14092-1	c 52	N80-16725 *	NASA-CASE-NPO-14558-1	c 46	N80-24906 *
NASA-CASE-NPO-13644-1	c 52	N76-29895 *	NASA-CASE-NPO-14093-1	c 35	N80-20563 *	NASA-CASE-NPO-14567-1	c 33	N83-18996 *
NASA-CASE-NPO-13650-1	c 25	N79-28253 *	NASA-CASE-NPO-14096-1	c 44	N80-18551 *	NASA-CASE-NPO-14579-1	c 32	N80-18253 *
NASA-CASE-NPO-13652-1	c 44	N79-17314 *	NASA-CASE-NPO-14100-1	c 44	N79-12541 *	NASA-CASE-NPO-14588-1	c 32	N81-25278 *
NASA-CASE-NPO-13652-2	c 44	N79-24431 *	NASA-CASE-NPO-14101-1	c 52	N80-14687 *	NASA-CASE-NPO-14590-1	c 32	N80-18253 *
NASA-CASE-NPO-13652-3	c 44	N80-14474 *	NASA-CASE-NPO-14103-1	c 28	N78-31255 *	NASA-CASE-NPO-14596-1	c 31	N81-33319 *
NASA-CASE-NPO-13663-1	c 35	N77-14406 *	NASA-CASE-NPO-14109-1	c 28	N80-23471 *	NASA-CASE-NPO-14596-3	c 31	N83-31896 *
NASA-CASE-NPO-13666-1	c 27	N77-13217 *	NASA-CASE-NPO-14110-1	c 28	N81-15119 *	NASA-CASE-NPO-14597-2	c 37	N84-28081 *
NASA-CASE-NPO-13671-1	c 37	N77-31497 *	NASA-CASE-NPO-14112-1	c 46	N79-22679 *	NASA-CASE-NPO-14617-1	c 33	N81-24338 *
NASA-CASE-NPO-13673-1	c 71	N77-26919 *	NASA-CASE-NPO-14124-1	c 46	N80-14603 *	NASA-CASE-NPO-14619-1	c 44	N81-17518 *
NASA-CASE-NPO-13675-1	c 44	N77-32580 *	NASA-CASE-NPO-14126-1	c 44	N79-11470 *	NASA-CASE-NPO-14632-1	c 32	N82-18443 *
NASA-CASE-NPO-13676-1	c 60	N79-20751 *	NASA-CASE-NPO-14130-1	c 34	N79-20335 *	NASA-CASE-NPO-14635-1	c 44	N80-24741 *
NASA-CASE-NPO-13683-1	c 35	N77-14411 *	NASA-CASE-NPO-14134-1	c 71	N79-23753 *	NASA-CASE-NPO-14640-1	c 32	N80-32605 *
NASA-CASE-NPO-13687-1	c 35	N78-18391 *	NASA-CASE-NPO-14140-1	c 43	N81-26509 *	NASA-CASE-NPO-14641-1	c 32	N81-29308 *
NASA-CASE-NPO-13689-2	c 44	N81-29525 *	NASA-CASE-NPO-14143-1	c 25	N81-14015 *	NASA-CASE-NPO-14657-1	c 74	N81-17887 *
NASA-CASE-NPO-13689-4	c 44	N82-28780 *	NASA-CASE-NPO-14152-1	c 32	N80-18252 *	NASA-CASE-NPO-14670-1	c 44	N81-19558 *
NASA-CASE-NPO-13690-1	c 27	N78-19302 *	NASA-CASE-NPO-14162-1	c 60	N81-15706 *	NASA-CASE-NPO-14749-1	c 32	N81-14186 *
NASA-CASE-NPO-13690-2	c 27	N79-14213 *	NASA-CASE-NPO-14163-1	c 33	N81-14220 *	NASA-CASE-NPO-14782-1	c 36	N82-28616 *
NASA-CASE-NPO-13691-1	c 43	N79-17288 *	NASA-CASE-NPO-14167-1	c 60	N81-15706 *	NASA-CASE-NPO-14813-1	c 74	N82-24072 *
NASA-CASE-NPO-13707-1	c 74	N77-28933 *	NASA-CASE-NPO-14169-1	c 60	N81-15706 *	NASA-CASE-NPO-14831-1	c 76	N82-30105 *
NASA-CASE-NPO-13722-1	c 74	N77-22951 *	NASA-CASE-NPO-14170-1	c 37	N81-15364 *	NASA-CASE-NPO-14839-1	c 35	N82-15381 *
NASA-CASE-NPO-13731-1	c 39	N78-10493 *	NASA-CASE-NPO-14173-1	c 04	N80-32359 *	NASA-CASE-NPO-14845-1	c 27	N82-28442 *
NASA-CASE-NPO-13732-1	c 44	N79-10513 *	NASA-CASE-NPO-14174-1	c 74	N79-20856 *	NASA-CASE-NPO-14857-1	c 27	N83-19900 *
NASA-CASE-NPO-13734-1	c 44	N78-10554 *	NASA-CASE-NPO-14191-1	c 31	N80-32584 *	NASA-CASE-NPO-14864-1	c 74	N83-19597 *
NASA-CASE-NPO-13736-1	c 44	N77-32583 *	NASA-CASE-NPO-14192-1	c 39	N80-10507 *	NASA-CASE-NPO-14902-1	c 25	N82-29371 *
NASA-CASE-NPO-13753-1	c 32	N77-20289 *	NASA-CASE-NPO-14199-1	c 44	N79-25482 *	NASA-CASE-NPO-14936-1	c 47	N83-32232 *
NASA-CASE-NPO-13758-2	c 31	N81-15154 *	NASA-CASE-NPO-14200-1	c 44	N79-25482 *	NASA-CASE-NPO-14940-1	c 33	N83-31954 *
NASA-CASE-NPO-13759-1	c 74	N78-17867 *	NASA-CASE-NPO-14205-1	c 44	N79-31752 *	NASA-CASE-NPO-14987-1	c 24	N83-33950 *
NASA-CASE-NPO-13763-1	c 44	N78-33526 *	NASA-CASE-NPO-14212-1	c 52	N80-27072 *	NASA-CASE-NPO-14998-1	c 32	N83-18975 *
NASA-CASE-NPO-13764-1	c 27	N78-17215 *	NASA-CASE-NPO-14219-1	c 74	N81-17886 *	NASA-CASE-NPO-15015-1	c 25	N82-28368 *
NASA-CASE-NPO-13772-1	c 35	N78-10429 *	NASA-CASE-NPO-14220-1	c 37	N81-14318 *	NASA-CASE-NPO-15021-1	c 36	N83-10417 *
NASA-CASE-NPO-13786-1	c 44	N80-29835 *	NASA-CASE-NPO-14221-1	c 37	N81-25370 *	NASA-CASE-NPO-15024-1	c 32	N84-27951 *
NASA-CASE-NPO-13792-1	c 35	N77-32455 *	NASA-CASE-NPO-14224-1	c 33	N80-18287 *	NASA-CASE-NPO-15036-1	c 74	N82-19029 *
NASA-CASE-NPO-13801-1	c 36	N78-18410 *	NASA-CASE-NPO-14229-1	c 33	N80-18285 *	NASA-CASE-NPO-15037-2	c 37	N85-29282 *
NASA-CASE-NPO-13802-1	c 71	N78-10837 *	NASA-CASE-NPO-14231-1	c 46	N80-10709 *	NASA-CASE-NPO-15066-1	c 33	N82-29538 *
NASA-CASE-NPO-13804-1	c 33	N80-23559 *	NASA-CASE-NPO-14237-1	c 44	N80-20808 *	NASA-CASE-NPO-15070-1	c 31	N83-35176 *
NASA-CASE-NPO-13808-1	c 35	N78-15461 *	NASA-CASE-NPO-14253-1	c 32	N80-32605 *	NASA-CASE-NPO-15071-1	c 44	N82-16475 *
NASA-CASE-NPO-13810-1	c 44	N77-32582 *	NASA-CASE-NPO-14254-1	c 36	N80-18372 *	NASA-CASE-NPO-15100-1	c 44	N84-14583 *
NASA-CASE-NPO-13812-1	c 33	N77-30365 *	NASA-CASE-NPO-14255-1	c 46	N79-23555 *	NASA-CASE-NPO-15102-1	c 25	N81-25159 *
NASA-CASE-NPO-13813-1	c 44	N78-31526 *	NASA-CASE-NPO-14258-1	c 35	N81-33448 *	NASA-CASE-NPO-15111-1	c 36	N82-29589 *
NASA-CASE-NPO-13817-1	c 44	N79-11471 *	NASA-CASE-NPO-14260-1	c 28	N79-28342 *	NASA-CASE-NPO-15115-1	c 37	N82-24493 *
NASA-CASE-NPO-13821-1	c 44	N78-28594 *	NASA-CASE-NPO-14272-1	c 25	N81-33246 *	NASA-CASE-NPO-15155-1	c 74	N85-22139 *
NASA-CASE-NPO-13823-1	c 37	N81-25371 *	NASA-CASE-NPO-14273-1	c 25	N82-11144 *	NASA-CASE-NPO-15161-1	c 33	N84-16456 *
NASA-CASE-NPO-13828-1	c 37	N79-11405 *	NASA-CASE-NPO-14295-1	c 76	N80-32245 *	NASA-CASE-NPO-15179-1	c 44	N82-26777 *
NASA-CASE-NPO-13830-1	c 32	N80-14281 *	NASA-CASE-NPO-14297-1	c 33	N81-19389 *	NASA-CASE-NPO-15183-1	c 44	N82-26758 *
NASA-CASE-NPO-13836-1	c 32	N78-15323 *	NASA-CASE-NPO-14298-1	c 76	N80-32244 *	NASA-CASE-NPO-15197-1	c 52	N83-25346 *
NASA-CASE-NPO-13839-1	c 31	N78-25256 *	NASA-CASE-NPO-14303-1	c 44	N80-18550 *	NASA-CASE-NPO-15201-1	c 36	N83-35350 *
NASA-CASE-NPO-13847-2	c 85	N79-17747 *	NASA-CASE-NPO-14305-1	c 44	N80-18550 *	NASA-CASE-NPO-15202-1	c 27	N83-34043 *
NASA-CASE-NPO-13848-2	c 85	N79-17747 *	NASA-CASE-NPO-14311-1	c 33	N82-29539 *	NASA-CASE-NPO-15210-1	c 25	N84-22709 *
NASA-CASE-NPO-13849-1	c 28	N80-10374 *	NASA-CASE-NPO-14315-1	c 27	N81-17261 *	NASA-CASE-NPO-15213-1	c 51	N83-17045 *
NASA-CASE-NPO-13858-1	c 28	N79-11231 *	NASA-CASE-NPO-14316-1	c 33	N81-33404 *	NASA-CASE-NPO-15220-1	c 45	N83-25217 *
NASA-CASE-NPO-13859-1	c 28	N79-11231 *	NASA-CASE-NPO-14324-1	c 72	N80-27163 *	NASA-CASE-NPO-15227-1	c 37	N81-33482 *
NASA-CASE-NPO-13862-1	c 35	N79-10391 *	NASA-CASE-NPO-14328-1	c 32	N80-18253 *	NASA-CASE-NPO-15251-1	c 31	N83-31897 *
NASA-CASE-NPO-13867-1	c 27	N78-14164 *	NASA-CASE-NPO-14329-1	c 52	N81-20703 *	NASA-CASE-NPO-15264-1	c 04	N84-27713 *
NASA-CASE-NPO-13872-1	c 33	N78-10377 *	NASA-CASE-NPO-14340-1	c 45	N80-14579 *	NASA-CASE-NPO-15269-1	c 44	N82-29710 *
NASA-CASE-NPO-13877-1	c 45	N82-11634 *	NASA-CASE-NPO-14350-1	c 33	N80-14332 *	NASA-CASE-NPO-15292-1	c 35	N83-27184 *
NASA-CASE-NPO-13886-1	c 32	N78-24391 *	NASA-CASE-NPO-14361-1	c 32	N82-23376 *	NASA-CASE-NPO-15295-1	c 60	N85-21992 *
NASA-CASE-NPO-13899-1	c 27	N80-32515 *	NASA-CASE-NPO-14362-1	c 32	N80-16261 *	NASA-CASE-NPO-15304-1	c 25	N83-31743 *
NASA-CASE-NPO-13904-1	c 25	N79-11152 *	NASA-CASE-NPO-14363-1	c 39	N81-25400 *	NASA-CASE-NPO-15334-1	c 71	N83-35781 *
NASA-CASE-NPO-13906-1	c 54	N79-24652 *	NASA-CASE-NPO-14369-1	c 44	N83-10501 *	NASA-CASE-NPO-15341-1	c 35	N84-33769 *
NASA-CASE-NPO-13907-1	c 28	N80-10374 *	NASA-CASE-NPO-14372-1	c 35	N80-26635 *	NASA-CASE-NPO-15342-1	c 60	N83-32342 *
NASA-CASE-NPO-13909-1	c 33	N78-25319 *	NASA-CASE-NPO-14382-1	c 31	N80-18231 *	NASA-CASE-NPO-15345-1	c 74	N84-23247 *
NASA-CASE-NPO-13910-1	c 52	N79-27836 *	NASA-CASE-NPO-14384-1	c 37	N80-10494 *	NASA-CASE-NPO-15351-1	c 06	N83-10040 *
NASA-CASE-NPO-13913-1	c 52	N79-12694 *	NASA-CASE-NPO-14387-1	c 43	N81-26509 *	NASA-CASE-NPO-15351-2	c 06	N84-34443 *
NASA-CASE-NPO-13914-1	c 44	N78-31526 *	NASA-CASE-NPO-14388-1	c 37	N81-17432 *	NASA-CASE-NPO-15358-1	c 33	N83-27126 *
NASA-CASE-NPO-13918-1	c 76	N79-11920 *	NASA-CASE-NPO-14395-1	c 37	N82-21587 *	NASA-CASE-NPO-15375-1	c 74	N84-11921 *
NASA-CASE-NPO-13921-1	c 44	N79-14526 *	NASA-CASE-NPO-14402-1	c 52	N81-27783 *	NASA-CASE-NPO-15388-1	c 44	N84-28203 *
NASA-CASE-NPO-13930-1	c 52	N79-14749 *	NASA-CASE-NPO-14406-1	c 37	N80-29703 *	NASA-CASE-NPO-15398-1	c 35	N84-22931 *
NASA-CASE-NPO-13935-1	c 52	N79-14751 *	NASA-CASE-NPO-14416-1	c 44	N81-14389 *	NASA-CASE-NPO-15400-1	c 34	N83-31993 *
NASA-CASE-NPO-13937-1	c 44	N78-31527 *	NASA-CASE-NPO-14424-1	c 33	N80-32650 *	NASA-CASE-NPO-15401-1	c 32	N83-27085 *
NASA-CASE-NPO-13941-1	c 32	N79-10262 *	NASA-CASE-NPO-14426-1	c 33	N81-27396 *	NASA-CASE-NPO-15419-2	c 44	N85-30474 *
NASA-CASE-NPO-13944-1	c 52	N79-14751 *	NASA-CASE-NPO-14430-1	c 33	N80-32650 *	NASA-CASE-NPO-15423-1	c 35	N84-28016 *
NASA-CASE-NPO-13945-1	c 36	N78-27402 *	NASA-CASE-NPO-14435-1	c 33	N81-33405 *	NASA-CASE-NPO-15426-1	c 35	N84-17555 *
NASA-CASE-NPO-13948-1	c 35	N78-25391 *	NASA-CASE-NPO-14444-1	c 33	N81-15192 *	NASA-CASE-NPO-15430-1	c 46	N85-21846 *
NASA-CASE-NPO-13953-1	c 35	N79-28527 *	NASA-CASE-NPO-14448-1	c 74	N81-29963 *	NASA-CASE-NPO-15432-1	c 32	N85-29117 *
NASA-CASE-NPO-13958-1	c 25	N79-11151 *	NASA-CASE-NPO-14467-1	c 44	N79-31753 *	NASA-CASE-NPO-15433-1	c 32	N85-21428 *
NASA-CASE-NPO-13969-1	c 76	N79-23798 *	NASA-CASE-NPO-14473-1	c 37	N80-23654 *	NASA-CASE-NPO-15435-1	c 71	N83-36846 *
NASA-CASE-NPO-13970-1	c 33	N81-20352 *	NASA-CASE-NPO-14474-1	c 26	N80-14229 *	NASA-CASE-NPO-15453-1	c 71	N83-32515 *
NASA-CASE-NPO-13982-1	c 32	N79-14267 *	NASA-CASE-NPO-14477-1	c 28	N80-28536 *	NASA-CASE-NPO-15458-1	c 25	N84-12262 *
NASA-CASE-NPO-13993-1	c 72	N79-13826 *	NASA-CASE-NPO-14480-1	c 32	N80-20448 *	NASA-CASE-NPO-15464-1	c 74	N85-29749 *
NASA-CASE-NPO-13999-1	c 35	N78-18395 *	NASA-CASE-NPO-14501-1	c 35	N80-18357 *	NASA-CASE-NPO-15465-1	c 34	N84-22903 *
NASA-CASE-NPO-14000-1	c 33	N79-24254 *	NASA-CASE-NPO-14502-1	c 74	N81-17888 *	NASA-CASE-NPO-15466-1	c 71	N85-22104 *
NASA-CASE-NPO-14001-1	c 27	N81-14076 *	NASA-CASE-NPO-14505-1	c 33	N81-19393 *	NASA-CASE-NPO-15482-1	c 37	N87-23970 *
NASA-CASE-NPO-14005-1	c 71	N79-20827 *	NASA-CASE-NPO-14513-1	c 35	N81-14287 *	NASA-CASE-NPO-15483-1	c 37	N85-21650 *
NASA-CASE-NPO-14009-1	c 32	N79-13214 *	NASA-CASE-NPO-14519-1	c 32	N80-23524 *	NASA-CASE-NPO-15494-1	c 35	N82-25484 *
NASA-CASE-NPO-14014-1	c 37	N79-10420 *	NASA-CASE-NPO-14521-1	c 37	N81-27519 *	NASA-CASE-NPO-15496-1	c 44	N84-23018 *
NASA-CASE-NPO-14019-1	c 32	N79-14268 *	NASA-CASE-NPO-14524-1	c 32	N80-24510 *	NASA-CASE-NPO-15516-1	c 36	N84-22943 *
NASA-CASE-NPO-14021-2	c 27	N80-16163 *	NASA-CASE-NPO-14525-1	c 32	N79-19195 *	NASA-CASE-NPO-15519-1	c 32	N84-34651 *
NASA-CASE-NPO-14022-1	c 32	N78-31321 *	NASA-CASE-NPO-14525-2	c 32	N83-31918 *	NASA-CASE-NPO-15522-1	c 71	N83-32516 *
NASA-CASE-NPO-14035-1	c 32	N83-19968 *	NASA-CASE-NPO-14527-1	c 32	N80-24510 *	NASA-CASE-NPO-15530-1	c 76	N83-35888 *
NASA-CASE-NPO-14054-1	c 32	N82-12297 *	NASA-CASE-NPO-14536-1	c 32	N81-14185 *	NASA-CASE-NPO-15539-1	c 37	N82-11469 *
NASA-CASE-NPO-14056-1	c 33	N79-24257 *	NASA-CASE-NPO-14542-1	c 25	N82-23282 *	NASA-CASE-NPO-15547-1	c 72	N84-16959 *
NASA-CASE-NPO-14058-1	c 44	N79-18443 *	NASA-CASE-NPO-14544-1	c 46	N82-12685 *	NASA-CASE-NPO-15553-1	c 33	N85-29142 *

NASA-CASE-NPO-15558-1	c 35	N84-34705 *	NASA-CASE-NPO-16617-2-CU	c 35	N90-17118 *	NASA-CASE-NPO-17633-1-CU	c 27	N90-15263 *	#
NASA-CASE-NPO-15559-1	c 71	N85-30765 *	NASA-CASE-NPO-16632-1-CU	c 32	N87-15390 *	NASA-CASE-NPO-17640-1-CU	c 33	N91-14538 *	#
NASA-CASE-NPO-15560-1	c 33	N85-21491 *	NASA-CASE-NPO-16640-1-CU	c 72	N87-21661 *	NASA-CASE-NPO-17653-1-CU	c 51	N90-27239 *	#
NASA-CASE-NPO-15562-1	c 71	N82-27088 *	NASA-CASE-NPO-16675-1-CU	c 71	N88-24241 *	NASA-CASE-NPO-17664-1-CU	c 62	N90-27384 *	#
NASA-CASE-NPO-15592-1	c 71	N84-16940 *	NASA-CASE-NPO-16681-1-CU	c 76	N88-24543 *	NASA-CASE-NPO-17703-1-CU	c 74	N89-29191 *	#
NASA-CASE-NPO-15609-2	c 25	N88-23846 *	NASA-CASE-NPO-16734-1-CU	c 31	N88-14223 *	NASA-CASE-NPO-17716-1-CU	c 62	N90-10608 *	#
NASA-CASE-NPO-15617-1	c 35	N87-21304 *	NASA-CASE-NPO-16750-1-CU	c 74	N89-14078 *	NASA-CASE-NPO-17723-1-CU	c 76	N90-26685 *	#
NASA-CASE-NPO-15625-1	c 76	N83-20789 *	NASA-CASE-NPO-16764-1-CU	c 33	N88-14270 *	NASA-CASE-NPO-17724-1-CU	c 76	N90-27517 *	#
NASA-CASE-NPO-15629-1	c 76	N84-35113 *	NASA-CASE-NPO-16766-1-CU	c 37	N89-13785 *	NASA-CASE-NPO-17736-1-CU	c 76	N90-17455 *	#
NASA-CASE-NPO-15640-1	c 27	N84-22748 *	NASA-CASE-NPO-16784-1	c 33	N87-10231 *	NASA-CASE-NPO-17784-1-CU	c 74	N91-13998 *	#
NASA-CASE-NPO-15644-1	c 35	N84-33767 *	NASA-CASE-NPO-16789-1-CU	c 72	N89-29169 *	NASA-CASE-NPO-17785-1-CU	c 37	N89-28846 *	#
NASA-CASE-NPO-15651-1	c 43	N85-21723 *	NASA-CASE-NPO-16808-1-CU	c 76	N87-25868 *	NASA-CASE-NPO-17786-1-CU	c 35	N90-17104 *	#
NASA-CASE-NPO-15656-1	c 43	N84-23012 *	NASA-CASE-NPO-16859-1-CU	c 60	N90-21527 *	NASA-CASE-NPO-17800-1-CU	c 37	N91-13724 *	#
NASA-CASE-NPO-15658-1	c 26	N86-32551 *	NASA-CASE-NPO-16869-1CU	c 74	N86-33138 *	NASA-CASE-NPO-17801-1-CU	c 37	N90-27110 *	#
NASA-CASE-NPO-15662-1	c 44	N84-28204 *	NASA-CASE-NPO-16878-1-CU	c 35	N90-20351 *	NASA-CASE-NPO-17803-1-CU	c 62	N90-27385 *	#
NASA-CASE-NPO-15689-1	c 71	N84-23233 *	NASA-CASE-NPO-16882-1-CU	c 33	N88-24863 *	NASA-CASE-NPO-17806-1-CU	c 31	N91-13581 *	#
NASA-CASE-NPO-15696-1	c 33	N85-34333 *	NASA-CASE-NPO-16888-1-CU	c 33	N89-29681 *	NASA-CASE-NPO-17809-1-CU	c 33	N90-27041 *	#
NASA-CASE-NPO-15704-1	c 32	N85-34327 *	NASA-CASE-NPO-16892-1-CU	c 37	N87-14704 *	NASA-CASE-NPO-17812-1-CU	c 76	N90-17456 *	#
NASA-CASE-NPO-15706-1	c 35	N84-28017 *	NASA-CASE-NPO-16896-1-CU	c 71	N89-13236 *	NASA-CASE-NPO-17820-1-CU	c 04	N91-14321 *	#
NASA-CASE-NPO-15722-1	c 35	N85-29212 *	NASA-CASE-NPO-16901-1-CU	c 31	N90-19425 *	NASA-CASE-NPO-17824-1-CU	c 36	N90-17132 *	#
NASA-CASE-NPO-15743-1	c 32	N85-29118 *	NASA-CASE-NPO-16904-2-CU	c 32	N91-14523 *	NASA-CASE-NPO-17826-1-CU	c 27	N90-26952 *	#
NASA-CASE-NPO-15753-1	c 27	N84-33589 *	NASA-CASE-NPO-16907-1-CU	c 25	N88-24732 *	NASA-CASE-NPO-17830-1-CU	c 33	N91-14539 *	#
NASA-CASE-NPO-15759-1	c 35	N85-21596 *	NASA-CASE-NPO-16932-1CU	c 33	N87-15413 *	NASA-CASE-NPO-17831-1-CU	c 43	N91-14642 *	#
NASA-CASE-NPO-15767-1	c 23	N84-16255 *	NASA-CASE-NPO-16949-1-CU	c 62	N90-19776 *	NASA-CASE-NPO-17835-1-CU	c 76	N90-27518 *	#
NASA-CASE-NPO-15772-1	c 76	N85-29800 *	NASA-CASE-NPO-16985-1-CU	c 31	N91-15423 *	NASA-CASE-NPO-17845-1-CU	c 61	N90-27341 *	#
NASA-CASE-NPO-15786-1	c 76	N84-35112 *	NASA-CASE-NPO-16987-1-CU	c 32	N88-30001 *	NASA-CASE-NPO-17853-1-CU	c 32	N90-16975 *	#
NASA-CASE-NPO-15789-1	c 31	N83-19947 *	NASA-CASE-NPO-16989-1-CU	c 35	N91-14587 *	NASA-CASE-NPO-17858-1-CU	c 24	N90-26880 *	#
NASA-CASE-NPO-15790-1	c 36	N85-21631 *	NASA-CASE-NPO-16995-1-CU	c 71	N90-12829 *	NASA-CASE-NPO-17873-1-CU	c 32	N90-27015 *	#
NASA-CASE-NPO-15800-2	c 76	N87-23286 *	NASA-CASE-NPO-17022-1-CU	c 29	N87-25489 *	NASA-CASE-NPO-17896-1-CU	c 32	N91-13596 *	#
NASA-CASE-NPO-15801-1	c 74	N85-23396 *	NASA-CASE-NPO-17024-1-CU	c 35	N88-24943 *	NASA-CASE-NPO-17897-1-CU	c 33	N90-27040 *	#
NASA-CASE-NPO-15805-1	c 74	N84-28590 *	NASA-CASE-NPO-17058-1-CU	c 62	N87-25803 *	NASA-CASE-NPO-17904-1-CU	c 32	N91-13594 *	#
NASA-CASE-NPO-15808-1	c 44	N84-34792 *	NASA-CASE-NPO-17068-1-CU	c 35	N88-29151 *	NASA-CASE-NPO-17911-1-CU	c 32	N90-27016 *	#
NASA-CASE-NPO-15811-1	c 76	N84-12968 *	NASA-CASE-NPO-17085-1-CU	c 31	N89-12785 *	NASA-CASE-NPO-17913-1-CU	c 74	N90-27488 *	#
NASA-CASE-NPO-15813-1	c 76	N85-30922 *	NASA-CASE-NPO-17086-1-CU	c 35	N89-14422 *	NASA-CASE-NPO-17914-1-CU	c 39	N91-13767 *	#
NASA-CASE-NPO-15813-2	c 76	N87-15882 *	NASA-CASE-NPO-17108-1-CU	c 33	N89-28713 *	NASA-CASE-NPO-17917-1-CU	c 37	N90-26339 *	#
NASA-CASE-NPO-15851-1	c 37	N85-21652 *	NASA-CASE-NPO-17122-1-CU	c 27	N91-14489 *	NASA-CASE-NPO-17919-1-CU	c 33	N91-15489 *	#
NASA-CASE-NPO-15865-1	c 74	N85-34629 *	NASA-CASE-NPO-17134-1-CU	c 33	N88-24864 *	NASA-CASE-NPO-17922-1-CU	c 33	N91-13621 *	#
NASA-CASE-NPO-15890-1-CU	c 33	N85-29143 *	NASA-CASE-NPO-17139-1-CU	c 74	N88-25301 *	NASA-CASE-NPO-17937-1-CU	c 43	N91-13787 *	#
NASA-CASE-NPO-15904-1	c 76	N86-28760 *	NASA-CASE-NPO-17140-1-CU	c 74	N89-14077 *	NASA-CASE-NPO-17939-1-CU	c 60	N90-26518 *	#
NASA-CASE-NPO-15920-1	c 33	N85-21493 *	NASA-CASE-NPO-17143-1-CU	c 31	N89-14351 *	NASA-CASE-NPO-17941-1-CU	c 32	N91-13595 *	#
NASA-CASE-NPO-15924-1	c 25	N85-35253 *	NASA-CASE-NPO-17144-1-CU	c 74	N88-26305 *	NASA-CASE-NPO-17949-1-CU	c 76	N90-26684 *	#
NASA-CASE-NPO-15928-1	c 26	N85-29005 *	NASA-CASE-NPO-17157-1-CU	c 33	N88-26596 *	NASA-CASE-NPO-17954-1-CU	c 60	N90-26519 *	#
NASA-CASE-NPO-15939-1	c 43	N86-19711 *	NASA-CASE-NPO-17184-1-CU	c 32	N88-26541 *	NASA-CASE-NPO-17970-1-CU	c 43	N90-26384 *	#
NASA-CASE-NPO-15949-1	c 85	N85-34722 *	NASA-CASE-NPO-17185-1-CU	c 62	N91-14772 *	NASA-CASE-NPO-17997-1-CU	c 60	N91-13888 *	#
NASA-CASE-NPO-15959-2	c 37	N91-14616 *	NASA-CASE-NPO-17186-1-CU	c 32	N88-29076 *	NASA-CASE-NPO-18034-1-CU	c 44	N91-13796 *	#
NASA-CASE-NPO-15960-1	c 37	N86-19604 *	NASA-CASE-NPO-17197-1-CU	c 62	N89-29976 *	NASA-CASE-NPO-18075-1-CU	c 33	N91-13622 *	#
NASA-CASE-NPO-15980-1	c 36	N85-30305 *	NASA-CASE-NPO-17203-1-CU	c 34	N90-23700 *	NASA-CASE-NPO-18101-1-CU	c 74	N91-13995 *	#
NASA-CASE-NPO-15982-1	c 60	N87-21591 *	NASA-CASE-NPO-17204-1-CU	c 34	N90-26292 *				
NASA-CASE-NPO-16000-1	c 36	N85-29264 *	NASA-CASE-NPO-17205-1-CU	c 60	N90-21525 *	NASA-CASE-NST-00007-1	c 45	N91-14662 *	
NASA-CASE-NPO-16021-1	c 33	N85-30187 *	NASA-CASE-NPO-17207-1-CU	c 74	N88-25304 *	NASA-CASE-NSTL-10	c 45	N84-12654 *	
NASA-CASE-NPO-16022-1	c 71	N85-22105 *	NASA-CASE-NPO-17233-1-CU	c 33	N88-29095 *				
NASA-CASE-NPO-16027-1	c 35	N85-21597 *	NASA-CASE-NPO-17235-1-CU	c 35	N90-21358 *	NASA-CASE-NUC-10107-1	c 33	N74-17930 *	
NASA-CASE-NPO-16030-1	c 36	N84-25037 *	NASA-CASE-NPO-17241-1-CU	c 33	N90-23636 *				
NASA-CASE-NPO-16038-1	c 37	N86-19605 *	NASA-CASE-NPO-17249-1-CU	c 32	N89-28676 *	NASA-CASE-SSC-00004-1	c 37	N91-14609 *	#
NASA-CASE-NPO-16045-1	c 76	N87-13313 *	NASA-CASE-NPO-17258-1-CU	c 33	N91-14551 *	NASA-CASE-SSC-00006-1	c 35	N91-13691 *	#
NASA-CASE-NPO-16061-1-CU	c 72	N87-21680 *	NASA-CASE-NPO-17259-1-CU	c 76	N90-19884 *	NASA-CASE-SSC-00008-1	c 37	N91-13733 *	#
NASA-CASE-NPO-16103-1	c 27	N85-29043 *	NASA-CASE-NPO-17275-1-CU	c 37	N89-29750 *				
NASA-CASE-NPO-16112-1	c 33	N86-19516 *	NASA-CASE-NPO-17278-1-CU	c 31	N90-21215 *	NASA-CASE-WLP-10002	c 15	N72-17451 *	#
NASA-CASE-NPO-16116-2	c 60	N88-29310 *	NASA-CASE-NPO-17280-1-CU	c 17	N90-21061 *	NASA-CASE-WLP-10055-1	c 35	N84-28015 *	#
NASA-CASE-NPO-16135-1	c 25	N83-24572 *	NASA-CASE-NPO-17282-1-CU	c 36	N91-15528 *	NASA-CASE-WLP-10055-2	c 35	N85-21598 *	#
NASA-CASE-NPO-16142-1-CU	c 35	N86-20752 *	NASA-CASE-NPO-17291-1-CU	c 34	N88-23946 *				
NASA-CASE-NPO-16147-1-CU	c 71	N85-29693 *	NASA-CASE-NPO-17301-1-CU	c 31	N90-23587 *	NASA-CASE-WOO-00428-1	c 32	N79-19186 *	#
NASA-CASE-NPO-16155-1	c 44	N85-30475 *	NASA-CASE-NPO-17310-1-CU	c 17	N88-28946 *	NASA-CASE-WOO-00625	c 37	N78-17385 *	#
NASA-CASE-NPO-16171-1CU	c 04	N86-27270 *	NASA-CASE-NPO-17325-1-CU	c 32	N90-17005 *				
NASA-CASE-NPO-16203-1	c 23	N85-35227 *	NASA-CASE-NPO-17334-1-CU	c 31	N88-23917 *	NASA-CASE-XAC-00001	c 15	N71-28952 *	#
NASA-CASE-NPO-16233-1	c 37	N86-20801 *	NASA-CASE-NPO-17354-1-CU	c 37	N90-17153 *	NASA-CASE-XAC-00030	c 14	N70-34820 *	#
NASA-CASE-NPO-16236-1	c 44	N86-27706 *	NASA-CASE-NPO-17355-1-CU	c 36	N91-17360 *	NASA-CASE-XAC-00042	c 14	N70-34816 *	#
NASA-CASE-NPO-16256-1	c 32	N87-21207 *	NASA-CASE-NPO-17390-1-CU	c 35	N90-22769 *	NASA-CASE-XAC-00048	c 02	N71-29128 *	#
NASA-CASE-NPO-16257-1	c 31	N85-29082 *	NASA-CASE-NPO-17393-1-CU	c 33	N89-29679 *	NASA-CASE-XAC-00060	c 09	N70-39915 *	#
NASA-CASE-NPO-16271-1	c 35	N86-25753 *	NASA-CASE-NPO-17399-1-CU	c 76	N89-14120 *	NASA-CASE-XAC-00073	c 14	N70-34813 *	#
NASA-CASE-NPO-16299-1	c 33	N87-14594 *	NASA-CASE-NPO-17426-1-CU	c 33	N90-10329 *	NASA-CASE-XAC-00074	c 15	N70-34817 *	#
NASA-CASE-NPO-16306-1-CU	c 76	N91-15898 *	NASA-CASE-NPO-17430-1-CU	c 33	N90-21951 *	NASA-CASE-XAC-00086	c 09	N70-33182 *	#
NASA-CASE-NPO-16321-1CU	c 37	N87-17034 *	NASA-CASE-NPO-17436-1-CU	c 35	N91-15512 *	NASA-CASE-XAC-00139	c 02	N70-34856 *	#
NASA-CASE-NPO-16337-1-CU	c 33	N87-22894 *	NASA-CASE-NPO-17439-1-CU	c 52	N90-16391 *	NASA-CASE-XAC-00319	c 25	N70-41628 *	#
NASA-CASE-NPO-16372-1	c 72	N86-33127 *	NASA-CASE-NPO-17461-1-CU	c 35	N91-17350 *	NASA-CASE-XAC-00399	c 11	N70-34815 *	#
NASA-CASE-NPO-16392-1	c 25	N86-25428 *	NASA-CASE-NPO-17479-1-CU	c 34	N91-13658 *	NASA-CASE-XAC-00404	c 08	N70-40125 *	#
NASA-CASE-NPO-16393-1-CU	c 31	N87-21159 *	NASA-CASE-NPO-17480-1-CU	c 25	N90-26098 *	NASA-CASE-XAC-00405	c 05	N70-41819 *	#
NASA-CASE-NPO-16402-2	c 33	N88-24862 *	NASA-CASE-NPO-17498-1-CU	c 72	N91-14813 *	NASA-CASE-XAC-00435	c 09	N70-35440 *	#
NASA-CASE-NPO-16414-1-CU	c 32	N87-25511 *	NASA-CASE-NPO-17511-1-CU	c 71	N91-14807 *	NASA-CASE-XAC-00472	c 15	N70-40180 *	#
NASA-CASE-NPO-16420-1	c 33	N86-20681 *	NASA-CASE-NPO-17524-1-CU	c 27	N90-10261 *	NASA-CASE-XAC-00648	c 14	N70-40400 *	#
NASA-CASE-NPO-16423-1-CU	c 37	N87-21334 *	NASA-CASE-NPO-17525-1-CU	c 60	N90-25583 *	NASA-CASE-XAC-00731	c 11	N71-15960 *	#
NASA-CASE-NPO-16433-1	c 36	N87-23961 *	NASA-CASE-NPO-17526-1-CU	c 35	N91-14588 *	NASA-CASE-XAC-00812	c 14	N71-15598 *	#
NASA-CASE-NPO-16461-1CU	c 60	N89-26400 *	NASA-CASE-NPO-17534-1-CU	c 76	N89-30076 *	NASA-CASE-XAC-00942	c 10	N71-16042 *	#
NASA-CASE-NPO-16462-1CU	c 60	N88-24169 *	NASA-CASE-NPO-17548-1-CU	c 32	N90-16104 *	NASA-CASE-XAC-01101	c 14	N70-41957 *	#
NASA-CASE-NPO-16464-1CU	c 60	N86-24224 *	NASA-CASE-NPO-17562-1-CU	c 74	N89-24153 *	NASA-CASE-XAC-01158	c 15	N71-23051 *	#
NASA-CASE-NPO-16467-1-CU	c 33	N87-23879 *	NASA-CASE-NPO-17564-1-CU	c 32	N90-16974 *	NASA-CASE-XAC-01404	c 05	N70-41581 *	#
NASA-CASE-NPO-16479-1CU	c 35	N86-32695 *	NASA-CASE-NPO-17569-1-CU	c 31	N90-26176 *	NASA-CASE-XAC-01591	c 31	N71-17729 *	#
NASA-CASE-NPO-16494-1-CU	c 34	N85-29182 *	NASA-CASE-NPO-17596-1-CU	c 35	N89-28795 *	NASA-CASE-XAC-01662	c 14	N71-23037 *	#
NASA-CASE-NPO-16497-1-CU	c 36	N87-25567 *	NASA-CASE-NPO-17604-1-CU	c 33	N91-14536 *	NASA-CASE-XAC-01677	c 09	N71-20816 *	#
NASA-CASE-NPO-16526-1CU	c 44	N87-17399 *	NASA-CASE-NPO-17612-1-CU	c 74	N90-27487 *	NASA-CASE-XAC-02058	c 02	N71-16087 *	#
NASA-CASE-NPO-16542-1-CU	c 36	N87-23960 *	NASA-CASE-NPO-17620-1-CU	c 71	N91-14808 *	NASA-CASE-XAC-02405	c 09	N71-16089 *	#
NASA-CASE-NPO-16544-1-CU	c 35	N87-22953 *	NASA-CASE-NPO-17621-1-CU	c 33	N90-17010 *	NASA-CASE-XAC-02407	c 14	N69-27423 *	#
NASA-CASE-NPO-16558-1-CU	c 74	N87-23259 *	NASA-CASE-NPO-17625-1-CU	c 34	N90-27070 *	NASA-CASE-XAC-02807	c 09	N71-23021 *	#
NASA-CASE-NPO-16567-1-CU	c 36	N87-28006 *	NASA-CASE-NPO-17628-1-CU	c 32	N89-28684 *	NASA-CASE-XAC-02877	c 14	N70-41681 *	#
NASA-CASE-NPO-16584-1-CU	c 76	N86-25269 *	NASA-CASE-NPO-17629-1-CU	c 60	N90-27268 *				
NASA-CASE-NPO-16607-1-CU	c 76	N88-14836 *	NASA-CASE-NPO-17630-1-CU	c 31	N89-29577 *				

NASA-CASE-XAC-02981	c 14	N71-21072 *	NASA-CASE-XGS-01143	c 31	N71-15647 *	NASA-CASE-XGS-04879	c 14	N71-20428 *
NASA-CASE-XAC-03107	c 23	N71-16098 *	NASA-CASE-XGS-01155	c 10	N71-21483 *	NASA-CASE-XGS-04987	c 08	N71-20571 *
NASA-CASE-XAC-03392	c 03	N70-41954 *	NASA-CASE-XGS-01159	c 21	N71-10678 *	NASA-CASE-XGS-04993	c 14	N71-17574 *
NASA-CASE-XAC-03740	c 14	N71-26135 *	NASA-CASE-XGS-01222	c 10	N71-20841 *	NASA-CASE-XGS-04994	c 09	N69-21543 *
NASA-CASE-XAC-03777	c 10	N71-15909 *	NASA-CASE-XGS-01223	c 07	N71-10609 *	NASA-CASE-XGS-04999	c 09	N69-24317 *
NASA-CASE-XAC-04030	c 10	N71-19472 *	NASA-CASE-XGS-01230	c 08	N71-19544 *	NASA-CASE-XGS-05003	c 09	N69-24318 *
NASA-CASE-XAC-04031	c 08	N71-18594 *	NASA-CASE-XGS-01231	c 14	N70-41676 *	NASA-CASE-XGS-05180	c 18	N71-25881 *
NASA-CASE-XAC-04458	c 14	N71-24232 *	NASA-CASE-XGS-01245-1	c 35	N79-33449 *	NASA-CASE-XGS-05211	c 07	N69-39980 *
NASA-CASE-XAC-04885	c 14	N71-23790 *	NASA-CASE-XGS-01286-1	c 37	N79-33469 *	NASA-CASE-XGS-05289	c 09	N71-19470 *
NASA-CASE-XAC-04886-1	c 14	N71-20439 *	NASA-CASE-XGS-01293-1	c 35	N79-33450 *	NASA-CASE-XGS-05290	c 09	N71-25999 *
NASA-CASE-XAC-05333	c 11	N71-22875 *	NASA-CASE-XGS-01331	c 14	N71-22996 *	NASA-CASE-XGS-05291	c 23	N71-16341 *
NASA-CASE-XAC-05422	c 04	N71-23185 *	NASA-CASE-XGS-01395	c 03	N69-21539 *	NASA-CASE-XGS-05432	c 03	N71-19438 *
NASA-CASE-XAC-05462-2	c 10	N72-17171 *	NASA-CASE-XGS-01418	c 09	N71-23573 *	NASA-CASE-XGS-05434	c 03	N71-20491 *
NASA-CASE-XAC-05506-1	c 24	N71-16095 *	NASA-CASE-XGS-01419	c 03	N70-41864 *	NASA-CASE-XGS-05441	c 10	N71-22962 *
NASA-CASE-XAC-05632	c 32	N71-23971 *	NASA-CASE-XGS-01451	c 09	N71-10677 *	NASA-CASE-XGS-05532	c 06	N71-17705 *
NASA-CASE-XAC-05695	c 25	N71-16073 *	NASA-CASE-XGS-01473	c 09	N71-10673 *	NASA-CASE-XGS-05533	c 04	N69-27487 *
NASA-CASE-XAC-05706	c 05	N71-12342 *	NASA-CASE-XGS-01475	c 03	N71-11058 *	NASA-CASE-XGS-05534	c 23	N71-16355 *
NASA-CASE-XAC-05902	c 11	N71-18578 *	NASA-CASE-XGS-01504	c 16	N70-41578 *	NASA-CASE-XGS-05579	c 31	N71-15676 *
NASA-CASE-XAC-06029-1	c 31	N71-24813 *	NASA-CASE-XGS-01513	c 03	N71-23336 *	NASA-CASE-XGS-05582	c 07	N69-27460 *
NASA-CASE-XAC-06302	c 08	N71-19763 *	NASA-CASE-XGS-01537	c 07	N71-23405 *	NASA-CASE-XGS-05584-1	c 25	N82-29370 *
NASA-CASE-XAC-06956	c 15	N71-21177 *	NASA-CASE-XGS-01587	c 14	N71-15962 *	NASA-CASE-XGS-05680	c 14	N71-17585 *
NASA-CASE-XAC-07043	c 05	N71-23161 *	NASA-CASE-XGS-01590	c 07	N71-12392 *	NASA-CASE-XGS-05715	c 23	N71-16100 *
NASA-CASE-XAC-08494	c 30	N71-15990 *	NASA-CASE-XGS-01593	c 03	N70-35408 *	NASA-CASE-XGS-05718	c 26	N71-16037 *
NASA-CASE-XAC-08972	c 02	N71-20570 *	NASA-CASE-XGS-01654	c 31	N71-24750 *	NASA-CASE-XGS-05918	c 07	N69-39974 *
NASA-CASE-XAC-08981	c 09	N69-39897 *	NASA-CASE-XGS-01674	c 03	N71-29129 *	NASA-CASE-XGS-06226	c 10	N71-25950 *
NASA-CASE-XAC-09489-1	c 15	N71-26673 *	NASA-CASE-XGS-01725	c 14	N69-39982 *	NASA-CASE-XGS-06306	c 17	N71-16044 *
NASA-CASE-XAC-10019	c 15	N71-23809 *	NASA-CASE-XGS-01784	c 10	N71-20782 *	NASA-CASE-XGS-06628	c 24	N71-16213 *
NASA-CASE-XAC-10607	c 10	N71-23669 *	NASA-CASE-XGS-01812	c 07	N71-23001 *	NASA-CASE-XGS-07375-1	c 25	N82-29370 *
NASA-CASE-XAC-10608-1	c 09	N71-12517 *	NASA-CASE-XGS-01881	c 09	N70-40123 *	NASA-CASE-XGS-07397-1	c 25	N82-29370 *
NASA-CASE-XAC-10768	c 09	N71-18830 *	NASA-CASE-XGS-01971	c 15	N71-15922 *	NASA-CASE-XGS-07514	c 23	N71-16099 *
NASA-CASE-XAC-10770-1	c 16	N71-24828 *	NASA-CASE-XGS-01983	c 10	N70-41964 *	NASA-CASE-XGS-07752	c 14	N73-30390 *
NASA-CASE-XAC-11225	c 14	N69-27486 *	NASA-CASE-XGS-02011	c 15	N71-20739 *	NASA-CASE-XGS-07801	c 09	N71-12513 *
NASA-CASE-XAR-01547	c 05	N69-21473 *	NASA-CASE-XGS-02171	c 09	N69-24324 *	NASA-CASE-XGS-07805	c 15	N72-33478 *
NASA-CASE-XAR-03786	c 09	N69-21313 *	NASA-CASE-XGS-02290	c 07	N71-28809 *	NASA-CASE-XGS-08259	c 14	N71-23698 *
NASA-CASE-XER-07894	c 09	N71-18721 *	NASA-CASE-XGS-02317	c 09	N71-23525 *	NASA-CASE-XGS-08266	c 14	N69-27432 *
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NASA-CASE-XER-07896-2	c 23	N72-22673 *	NASA-CASE-XGS-02401	c 14	N69-27485 *	NASA-CASE-XGS-08679	c 10	N71-21473 *
NASA-CASE-XER-08476-1	c 26	N72-17820 *	NASA-CASE-XGS-02422	c 15	N71-21529 *	NASA-CASE-XGS-08718	c 15	N71-24600 *
NASA-CASE-XER-09213	c 07	N71-12390 *	NASA-CASE-XGS-02435	c 18	N71-22998 *	NASA-CASE-XGS-08729	c 28	N71-14044 *
NASA-CASE-XER-09519	c 14	N71-18483 *	NASA-CASE-XGS-02437	c 15	N69-21472 *	NASA-CASE-XGS-09186	c 33	N78-17295 *
NASA-CASE-XER-09521	c 09	N72-12136 *	NASA-CASE-XGS-02439	c 14	N71-19431 *	NASA-CASE-XGS-09190	c 31	N71-16102 *
NASA-CASE-XER-11019	c 09	N71-23598 *	NASA-CASE-XGS-02440	c 08	N71-19432 *	NASA-CASE-XGS-10010	c 03	N72-15986 *
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NASA-CASE-XER-11046	c 09	N72-22203 *	NASA-CASE-XGS-02554	c 31	N71-21064 *	NASA-CASE-XGS-11177	c 09	N71-27001 *
NASA-CASE-XER-11203	c 14	N71-28994 *	NASA-CASE-XGS-02607	c 31	N71-23009 *			
NASA-CASE-XFR-00181	c 21	N70-33279 *	NASA-CASE-XGS-02608	c 07	N70-41678 *	NASA-CASE-XHQ-01208	c 15	N70-35409 *
NASA-CASE-XFR-00756	c 02	N71-13421 *	NASA-CASE-XGS-02610	c 14	N71-23174 *	NASA-CASE-XHQ-01897	c 28	N70-35381 *
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NASA-CASE-XFR-00929	c 31	N70-34966 *	NASA-CASE-XGS-02629	c 14	N71-21082 *	NASA-CASE-XHQ-03673	c 33	N71-29046 *
NASA-CASE-XFR-02007	c 12	N71-24692 *	NASA-CASE-XGS-02630	c 03	N71-22974 *	NASA-CASE-XHQ-03903	c 15	N69-21922 *
NASA-CASE-XFR-03107	c 09	N71-19449 *	NASA-CASE-XGS-02631	c 03	N71-23006 *	NASA-CASE-XHQ-04106	c 14	N70-40240 *
NASA-CASE-XFR-03802	c 33	N71-23085 *	NASA-CASE-XGS-02749	c 07	N69-39978 *			
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NASA-CASE-XFR-05302	c 15	N71-23254 *	NASA-CASE-XGS-02816	c 07	N69-24323 *	NASA-CASE-XKS-02582	c 15	N71-21234 *
NASA-CASE-XFR-05421	c 15	N71-22994 *	NASA-CASE-XGS-02888	c 15	N71-22705 *	NASA-CASE-XKS-03338	c 15	N71-24043 *
NASA-CASE-XFR-05637	c 09	N71-19480 *	NASA-CASE-XGS-03058	c 07	N71-11282 *	NASA-CASE-XKS-03381	c 09	N71-22796 *
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NASA-CASE-XFR-10856	c 05	N71-11189 *	NASA-CASE-XGS-03304	c 08	N71-18595 *	NASA-CASE-XKS-05932	c 09	N71-26787 *
			NASA-CASE-XGS-03351	c 09	N71-22988 *	NASA-CASE-XKS-06167	c 08	N71-24890 *
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			NASA-CASE-XGS-03427	c 03	N71-23187 *	NASA-CASE-XKS-07814	c 15	N71-27067 *
			NASA-CASE-XGS-03429	c 10	N71-23029 *	NASA-CASE-XKS-07953	c 15	N71-26134 *
			NASA-CASE-XGS-03431	c 03	N69-21330 *	NASA-CASE-XKS-08012-2	c 31	N71-15566 *
			NASA-CASE-XGS-03501	c 21	N71-15642 *	NASA-CASE-XKS-08485	c 07	N71-19493 *
			NASA-CASE-XGS-03502	c 09	N71-20864 *	NASA-CASE-XKS-09340	c 07	N71-24614 *
			NASA-CASE-XGS-03505	c 10	N71-20852 *	NASA-CASE-XKS-09348	c 09	N71-13521 *
			NASA-CASE-XGS-03532	c 03	N71-10608 *	NASA-CASE-XKS-10543	c 07	N71-26292 *
			NASA-CASE-XGS-03556	c 14	N71-17627 *	NASA-CASE-XKS-10804	c 05	N71-24606 *
			NASA-CASE-XGS-03632	c 27	N70-35534 *			
			NASA-CASE-XGS-03644	c 09	N71-23311 *	NASA-CASE-XLA-00013	c 15	N71-29136 *
			NASA-CASE-XGS-03736	c 16	N71-18614 *	NASA-CASE-XLA-00062	c 14	N70-33254 *
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			NASA-CASE-XGS-04393	c 15	N71-21744 *	NASA-CASE-XLA-00119	c 11	N70-33329 *
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			NASA-CASE-XGS-04480	c 14	N71-24233 *	NASA-CASE-XLA-00128	c 15	N70-37925 *
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			NASA-CASE-XGS-04808	c 18	N71-24183 *	NASA-CASE-XLA-00158	c 26	N70-36805 *
				c 03	N69-25146 *	NASA-CASE-XLA-00165	c 31	N70-33242 *

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NASA-CASE-XLA-00188	c 15	N71-22874 *	NASA-CASE-XLA-01807	c 15	N71-10799 *	NASA-CASE-XLA-07424	c 14	N71-18482 *
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NASA-CASE-XLA-00203	c 14	N70-34161 *	NASA-CASE-XLA-01907	c 14	N71-23268 *	NASA-CASE-XLA-07497	c 09	N71-12514 *
NASA-CASE-XLA-00204	c 32	N70-36536 *	NASA-CASE-XLA-01926	c 14	N71-15620 *	NASA-CASE-XLA-07728	c 33	N71-22890 *
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NASA-CASE-XLA-00302	c 15	N71-16077 *	NASA-CASE-XLA-02081	c 20	N71-16281 *	NASA-CASE-XLA-08507	c 09	N69-39984 *
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NASA-CASE-XLA-00326	c 03	N70-34667 *	NASA-CASE-XLA-02132	c 31	N71-10582 *	NASA-CASE-XLA-08645	c 15	N69-21465 *
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NASA-CASE-XLA-00330	c 33	N70-34540 *	NASA-CASE-XLA-02551	c 21	N71-21708 *	NASA-CASE-XLA-08799	c 10	N72-27722 *
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NASA-CASE-XLA-00670	c 08	N71-12501 *	NASA-CASE-XLA-03076	c 07	N71-11266 *	NASA-CASE-XLA-09480	c 11	N71-33612 *
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NASA-CASE-XLE-00586	c 15	N71-15968 *	NASA-CASE-XLE-05079	c 15	N71-17652 *	NASA-CASE-XMF-01813	c 28	N70-41582 *
NASA-CASE-XLE-00620	c 32	N70-41579 *	NASA-CASE-XLE-05130-2	c 15	N71-19570 *	NASA-CASE-XMF-01887	c 15	N71-10617 *
NASA-CASE-XLE-00660	c 28	N70-39925 *	NASA-CASE-XLE-05130	c 15	N69-21362 *	NASA-CASE-XMF-01892	c 10	N71-22986 *
NASA-CASE-XLE-00685	c 28	N70-41992 *	NASA-CASE-XLE-05230-2	c 14	N73-13417 *	NASA-CASE-XMF-01899	c 31	N70-41948 *
NASA-CASE-XLE-00688	c 14	N70-41330 *	NASA-CASE-XLE-05230	c 14	N72-27410 *	NASA-CASE-XMF-01973	c 31	N70-41588 *
NASA-CASE-XLE-00690	c 25	N69-39884 *	NASA-CASE-XLE-05260	c 14	N71-20429 *	NASA-CASE-XMF-01974	c 14	N71-22752 *
NASA-CASE-XLE-00702	c 14	N70-40203 *	NASA-CASE-XLE-05641-1	c 15	N71-26346 *	NASA-CASE-XMF-02039	c 15	N71-15871 *
NASA-CASE-XLE-00703	c 15	N71-15967 *	NASA-CASE-XLE-05689	c 28	N71-15659 *	NASA-CASE-XMF-02107	c 15	N71-10809 *
NASA-CASE-XLE-00715	c 15	N70-34859 *	NASA-CASE-XLE-05913	c 33	N71-14032 *	NASA-CASE-XMF-02108	c 31	N70-36845 *
NASA-CASE-XLE-00720	c 14	N70-40201 *	NASA-CASE-XLE-06094	c 33	N78-17293 *	NASA-CASE-XMF-02221	c 18	N71-27170 *
NASA-CASE-XLE-00726	c 17	N71-15644 *	NASA-CASE-XLE-06461-2	c 17	N72-28535 *	NASA-CASE-XMF-02263	c 05	N74-10907 *
NASA-CASE-XLE-00785	c 33	N71-16104 *	NASA-CASE-XLE-06461	c 17	N72-22530 *	NASA-CASE-XMF-02303	c 17	N71-23828 *
NASA-CASE-XLE-00787	c 14	N71-21090 *	NASA-CASE-XLE-06773	c 15	N71-23817 *	NASA-CASE-XMF-02307	c 14	N71-10779 *
NASA-CASE-XLE-00808	c 24	N71-10560 *	NASA-CASE-XLE-06774-2	c 06	N72-25150 *	NASA-CASE-XMF-02330	c 15	N71-23798 *
NASA-CASE-XLE-00810	c 15	N70-34861 *	NASA-CASE-XLE-06969	c 17	N71-24142 *	NASA-CASE-XMF-02392	c 32	N71-24285 *
NASA-CASE-XLE-00815	c 15	N70-35407 *	NASA-CASE-XLE-07087	c 06	N69-39889 *	NASA-CASE-XMF-02433	c 14	N71-10616 *
NASA-CASE-XLE-00817	c 28	N70-33265 *	NASA-CASE-XLE-08511-2	c 18	N71-16105 *	NASA-CASE-XMF-02526-1	c 27	N79-21190 *
NASA-CASE-XLE-00820	c 14	N71-16014 *	NASA-CASE-XLE-08511	c 18	N71-23710 *	NASA-CASE-XMF-02527-1	c 27	N79-21190 *
NASA-CASE-XLE-00953	c 15	N71-15966 *	NASA-CASE-XLE-08569-2	c 03	N71-24681 *	NASA-CASE-XMF-02584	c 06	N71-20905 *
NASA-CASE-XLE-01015	c 03	N69-39898 *	NASA-CASE-XLE-08569	c 03	N71-23449 *	NASA-CASE-XMF-02783-1	c 27	N79-21190 *
NASA-CASE-XLE-01092	c 15	N71-22797 *	NASA-CASE-XLE-08917-2	c 15	N71-24836 *	NASA-CASE-XMF-02786	c 17	N71-20743 *
NASA-CASE-XLE-01124	c 28	N71-14043 *	NASA-CASE-XLE-08917	c 15	N71-15597 *	NASA-CASE-XMF-02822	c 14	N70-41994 *
NASA-CASE-XLE-01182	c 27	N71-15635 *	NASA-CASE-XLE-09341	c 12	N71-28741 *	NASA-CASE-XMF-02853	c 31	N70-36654 *
NASA-CASE-XLE-01246	c 14	N71-10797 *	NASA-CASE-XLE-09475-1	c 33	N71-15568 *	NASA-CASE-XMF-02964	c 14	N71-17659 *
NASA-CASE-XLE-01300	c 15	N70-41993 *	NASA-CASE-XLE-09527-2	c 15	N71-26189 *	NASA-CASE-XMF-02966	c 10	N71-24863 *
NASA-CASE-XLE-01399	c 33	N71-15625 *	NASA-CASE-XLE-09527	c 15	N71-17688 *	NASA-CASE-XMF-03074	c 06	N71-24740 *
NASA-CASE-XLE-01449	c 15	N70-41646 *	NASA-CASE-XLE-10326-2	c 15	N72-29488 *	NASA-CASE-XMF-03169	c 31	N71-15675 *
NASA-CASE-XLE-01481	c 14	N71-10781 *	NASA-CASE-XLE-10326-4	c 37	N74-15125 *	NASA-CASE-XMF-03198	c 30	N70-40353 *
NASA-CASE-XLE-01512	c 12	N70-40124 *	NASA-CASE-XLE-10337	c 15	N71-24046 *	NASA-CASE-XMF-03212	c 15	N71-22721 *
NASA-CASE-XLE-01533	c 11	N71-10777 *	NASA-CASE-XLE-103477-1	c 28	N71-20330 *	NASA-CASE-XMF-03248	c 11	N71-10604 *
NASA-CASE-XLE-01604-2	c 15	N71-15610 *	NASA-CASE-XLE-10453-2	c 28	N73-27699 *	NASA-CASE-XMF-03287	c 15	N71-15607 *
NASA-CASE-XLE-01609	c 14	N71-10500 *	NASA-CASE-XLE-10466	c 17	N69-25147 *	NASA-CASE-XMF-03290	c 15	N71-23256 *
NASA-CASE-XLE-01640	c 31	N71-15637 *	NASA-CASE-XLE-10529	c 14	N69-23191 *	NASA-CASE-XMF-03498	c 15	N71-15986 *
NASA-CASE-XLE-01645	c 03	N71-20904 *	NASA-CASE-XLE-10715	c 26	N71-23292 *	NASA-CASE-XMF-03511	c 15	N71-22799 *
NASA-CASE-XLE-01716	c 09	N70-40234 *	NASA-CASE-XLE-10717	c 37	N75-29426 *	NASA-CASE-XMF-03793	c 15	N71-24833 *
NASA-CASE-XLE-01765	c 18	N71-10772 *	NASA-CASE-XLE-10910	c 18	N71-29040 *	NASA-CASE-XMF-03844-1	c 14	N71-26474 *
NASA-CASE-XLE-01783	c 28	N70-34175 *	NASA-CASE-XLE-2529-2	c 36	N75-27364 *	NASA-CASE-XMF-03856	c 31	N70-34159 *
NASA-CASE-XLE-01902	c 28	N71-10574 *	NASA-CASE-XLE-2529-3	c 33	N74-20859 *	NASA-CASE-XMF-03873	c 06	N69-39733 *
NASA-CASE-XLE-01903	c 22	N71-23599 *				NASA-CASE-XMF-03934	c 09	N71-22985 *
NASA-CASE-XLE-01988	c 27	N71-15634 *	NASA-CASE-XMF-00148	c 28	N70-38710 *	NASA-CASE-XMF-03968	c 14	N71-27186 *
NASA-CASE-XLE-01997	c 06	N71-23527 *	NASA-CASE-XMF-00185	c 21	N70-34539 *	NASA-CASE-XMF-03988	c 15	N71-21403 *
NASA-CASE-XLE-02008	c 09	N71-21583 *	NASA-CASE-XMF-00324	c 09	N70-34596 *	NASA-CASE-XMF-04042	c 15	N71-23023 *
NASA-CASE-XLE-02024	c 14	N71-22964 *	NASA-CASE-XMF-00339	c 15	N70-39896 *	NASA-CASE-XMF-04132	c 15	N69-27502 *
NASA-CASE-XLE-02038	c 09	N71-16086 *	NASA-CASE-XMF-00341	c 15	N70-33323 *	NASA-CASE-XMF-04133	c 06	N71-20717 *
NASA-CASE-XLE-02062-1	c 20	N80-14188 *	NASA-CASE-XMF-00369	c 09	N70-36494 *	NASA-CASE-XMF-04134	c 14	N71-23755 *
NASA-CASE-XLE-02066	c 28	N71-15661 *	NASA-CASE-XMF-00375	c 15	N70-34249 *	NASA-CASE-XMF-04163	c 02	N71-23007 *
NASA-CASE-XLE-02082	c 17	N71-16026 *	NASA-CASE-XMF-00389	c 31	N70-34176 *	NASA-CASE-XMF-04208	c 33	N71-29051 *
NASA-CASE-XLE-02083	c 03	N69-39983 *	NASA-CASE-XMF-00392	c 15	N70-34814 *	NASA-CASE-XMF-04237	c 33	N71-16278 *
NASA-CASE-XLE-02367-1	c 31	N79-21225 *	NASA-CASE-XMF-00411	c 11	N70-36913 *	NASA-CASE-XMF-04238	c 09	N69-39734 *
NASA-CASE-XLE-02428	c 17	N70-33288 *	NASA-CASE-XMF-00421	c 09	N70-34502 *	NASA-CASE-XMF-04367	c 09	N71-23545 *
NASA-CASE-XLE-02531	c 05	N71-23080 *	NASA-CASE-XMF-00424	c 11	N70-38196 *	NASA-CASE-XMF-04415	c 14	N71-24693 *
NASA-CASE-XLE-02545-1	c 76	N79-21910 *	NASA-CASE-XMF-00437	c 07	N70-40202 *	NASA-CASE-XMF-04494-1	c 33	N79-33392 *
NASA-CASE-XLE-02578	c 25	N71-20747 *	NASA-CASE-XMF-00442	c 31	N71-10747 *	NASA-CASE-XMF-04592-1	c 20	N79-21125 *
NASA-CASE-XLE-02624	c 12	N69-39988 *	NASA-CASE-XMF-00447	c 14	N70-33179 *	NASA-CASE-XMF-04593-1	c 20	N79-21125 *
NASA-CASE-XLE-02647	c 18	N71-23658 *	NASA-CASE-XMF-00456	c 14	N70-34705 *	NASA-CASE-XMF-04680	c 15	N71-19489 *
NASA-CASE-XLE-02792	c 26	N71-10607 *	NASA-CASE-XMF-00462	c 14	N70-34298 *	NASA-CASE-XMF-04709	c 15	N71-15609 *
NASA-CASE-XLE-02798	c 26	N71-23654 *	NASA-CASE-XMF-00479	c 14	N70-34794 *	NASA-CASE-XMF-04958-1	c 10	N71-26414 *
NASA-CASE-XLE-02823	c 09	N71-23443 *	NASA-CASE-XMF-00480	c 14	N70-39898 *	NASA-CASE-XMF-04966	c 14	N71-17658 *
NASA-CASE-XLE-02824	c 03	N69-39890 *	NASA-CASE-XMF-00515	c 15	N70-34664 *	NASA-CASE-XMF-05046	c 33	N71-28892 *
NASA-CASE-XLE-02902	c 25	N71-21694 *	NASA-CASE-XMF-00517	c 03	N70-34157 *	NASA-CASE-XMF-05114-2	c 15	N71-26148 *
NASA-CASE-XLE-02991	c 17	N71-16025 *	NASA-CASE-XMF-00580	c 11	N70-35383 *	NASA-CASE-XMF-05114-3	c 15	N71-24865 *
NASA-CASE-XLE-02998	c 14	N70-42074 *	NASA-CASE-XMF-00640	c 15	N70-39924 *	NASA-CASE-XMF-05114	c 15	N71-17650 *
NASA-CASE-XLE-02999	c 15	N71-16052 *	NASA-CASE-XMF-00641	c 31	N70-36410 *	NASA-CASE-XMF-05195	c 10	N71-24861 *
NASA-CASE-XLE-03061-1	c 10	N71-24798 *	NASA-CASE-XMF-00658	c 12	N70-38997 *	NASA-CASE-XMF-05224	c 14	N71-23726 *
NASA-CASE-XLE-03157	c 28	N71-24736 *	NASA-CASE-XMF-00663	c 08	N71-18752 *	NASA-CASE-XMF-05279	c 18	N71-16124 *
NASA-CASE-XLE-03186-1	c 09	N79-21084 *	NASA-CASE-XMF-00684	c 21	N71-21688 *	NASA-CASE-XMF-05344	c 31	N71-16345 *
NASA-CASE-XLE-03280	c 14	N71-23093 *	NASA-CASE-XMF-00701	c 09	N70-40272 *	NASA-CASE-XMF-05373-1	c 33	N79-21264 *
NASA-CASE-XLE-03307	c 33	N71-14035 *	NASA-CASE-XMF-00722	c 15	N70-40204 *	NASA-CASE-XMF-05757-1	c 31	N79-21227 *
NASA-CASE-XLE-03432	c 33	N71-24145 *	NASA-CASE-XMF-00906	c 09	N70-41655 *	NASA-CASE-XMF-05835	c 08	N71-12504 *
NASA-CASE-XLE-03494	c 27	N71-21819 *	NASA-CASE-XMF-00908	c 14	N70-40238 *	NASA-CASE-XMF-05843	c 03	N71-11055 *
NASA-CASE-XLE-03512	c 12	N69-21466 *	NASA-CASE-XMF-00923	c 28	N70-36802 *	NASA-CASE-XMF-05844	c 14	N71-17587 *
NASA-CASE-XLE-03583	c 31	N71-17629 *	NASA-CASE-XMF-00968	c 28	N71-15660 *	NASA-CASE-XMF-05868	c 26	N75-27125 *
NASA-CASE-XLE-03629	c 17	N71-23248 *	NASA-CASE-XMF-01016	c 26	N71-17818 *	NASA-CASE-XMF-05882	c 35	N75-27329 *
NASA-CASE-XLE-03778	c 09	N69-21542 *	NASA-CASE-XMF-01030	c 18	N70-41583 *	NASA-CASE-XMF-05941	c 31	N71-23912 *
NASA-CASE-XLE-03803-2	c 15	N71-17651 *	NASA-CASE-XMF-01045	c 15	N70-40354 *	NASA-CASE-XMF-05964-1	c 20	N79-21124 *
NASA-CASE-XLE-03803	c 15	N71-23816 *	NASA-CASE-XMF-01049	c 15	N71-23049 *	NASA-CASE-XMF-05999	c 15	N71-29032 *
NASA-CASE-XLE-03804	c 10	N71-19471 *	NASA-CASE-XMF-01083	c 15	N71-22723 *	NASA-CASE-XMF-06053	c 26	N75-27126 *
NASA-CASE-XLE-03925	c 18	N71-22894 *	NASA-CASE-XMF-01096	c 10	N71-16030 *	NASA-CASE-XMF-06065	c 15	N71-20395 *
NASA-CASE-XLE-03940-2	c 17	N72-28536 *	NASA-CASE-XMF-01097	c 10	N71-16058 *	NASA-CASE-XMF-06092	c 07	N71-24612 *
NASA-CASE-XLE-03940	c 18	N71-26153 *	NASA-CASE-XMF-01099	c 14	N71-15969 *	NASA-CASE-XMF-06409	c 06	N71-23230 *
NASA-CASE-XLE-04026	c 14	N71-23267 *	NASA-CASE-XMF-01129	c 09	N70-38712 *	NASA-CASE-XMF-06515	c 14	N71-23227 *
NASA-CASE-XLE-04222	c 23	N71-22881 *	NASA-CASE-XMF-01160	c 07	N71-11298 *	NASA-CASE-XMF-06519	c 09	N71-12519 *
NASA-CASE-XLE-04250	c 09	N71-20446 *	NASA-CASE-XMF-01174	c 02	N70-41589 *	NASA-CASE-XMF-06531	c 14	N71-17575 *
NASA-CASE-XLE-04501	c 09	N71-23190 *	NASA-CASE-XMF-01371	c 15	N70-41829 *	NASA-CASE-XMF-06589	c 05	N71-23159 *
NASA-CASE-XLE-04503	c 14	N71-24864 *	NASA-CASE-XMF-01402	c 18	N71-21651 *	NASA-CASE-XMF-06617	c 09	N71-24843 *
NASA-CASE-XLE-04526	c 03	N71-11052 *	NASA-CASE-XMF-01452	c 15	N70-41371 *	NASA-CASE-XMF-06884-1	c 20	N79-21123 *
NASA-CASE-XLE-04535	c 03	N71-23354 *	NASA-CASE-XMF-01483	c 14	N69-27431 *	NASA-CASE-XMF-06888	c 15	N71-24044 *
NASA-CASE-XLE-04599	c 22	N72-20597 *	NASA-CASE-XMF-01543	c 31	N71-17730 *	NASA-CASE-XMF-06892	c 09	N71-24805 *
NASA-CASE-XLE-04603	c 33	N71-21507 *	NASA-CASE-XMF-01544	c 28	N70-34162 *	NASA-CASE-XMF-06900-1	c 27	N79-21191 *
NASA-CASE-XLE-04677	c 15	N71-10577 *	NASA-CASE-XMF-01598	c 21	N71-15583 *	NASA-CASE-XMF-06926	c 28	N71-22983 *

NASA-CASE-XMF-07069	c 15	N71-23815 *	NASA-CASE-XMS-04312	c 07	N71-22984 *	NASA-CASE-XNP-00708	c 14	N70-35394 *
NASA-CASE-XMF-07488	c 11	N71-18773 *	NASA-CASE-XMS-04318	c 15	N69-27871 *	NASA-CASE-XNP-00710	c 15	N71-10778 *
NASA-CASE-XMF-07587	c 15	N71-18701 *	NASA-CASE-XMS-04390	c 31	N70-41871 *	NASA-CASE-XNP-00732	c 28	N70-41447 *
NASA-CASE-XMF-07770-2	c 18	N71-26772 *	NASA-CASE-XMS-04533	c 15	N71-23086 *	NASA-CASE-XNP-00733	c 06	N70-34946 *
NASA-CASE-XMF-07808	c 15	N71-23812 *	NASA-CASE-XMS-04545	c 15	N71-22878 *	NASA-CASE-XNP-00738	c 09	N70-38201 *
NASA-CASE-XMF-08217	c 03	N71-23239 *	NASA-CASE-XMS-04625	c 05	N71-20718 *	NASA-CASE-XNP-00745	c 10	N71-28960 *
NASA-CASE-XMF-08522	c 15	N71-19486 *	NASA-CASE-XMS-04670	c 54	N78-17678 *	NASA-CASE-XNP-00746	c 07	N71-21476 *
NASA-CASE-XMF-08523	c 31	N71-20396 *	NASA-CASE-XMS-04798	c 11	N71-21474 *	NASA-CASE-XNP-00748	c 07	N70-36911 *
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NASA-CASE-XMF-08656	c 06	N71-11242 *	NASA-CASE-XMS-04917	c 14	N69-24257 *	NASA-CASE-XNP-00840	c 15	N70-38225 *
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NASA-CASE-XMF-08804	c 09	N71-24717 *	NASA-CASE-XMS-04935	c 05	N71-11190 *	NASA-CASE-XNP-00920	c 15	N71-15906 *
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NASA-CASE-XMF-09902	c 15	N72-11387 *	NASA-CASE-XMS-05304	c 05	N71-12336 *	NASA-CASE-XNP-01012	c 08	N71-28925 *
NASA-CASE-XMF-10040	c 15	N71-22877 *	NASA-CASE-XMS-05307	c 09	N69-24330 *	NASA-CASE-XNP-01020	c 03	N71-12260 *
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NASA-CASE-XMF-14032	c 20	N71-16340 *	NASA-CASE-XMS-05562-1	c 09	N69-39986 *	NASA-CASE-XNP-01059	c 23	N71-21821 *
NASA-CASE-XMF-14301	c 09	N71-23188 *	NASA-CASE-XMS-05605-1	c 10	N71-19468 *	NASA-CASE-XNP-01068	c 10	N71-28739 *
NASA-CASE-XMS-00259	c 18	N70-36400 *	NASA-CASE-XMS-05731	c 35	N75-29382 *	NASA-CASE-XNP-01104	c 28	N70-39931 *
NASA-CASE-XMS-00486	c 33	N70-33344 *	NASA-CASE-XMS-05890	c 09	N71-23191 *	NASA-CASE-XNP-01107	c 10	N71-28859 *
NASA-CASE-XMS-00583	c 28	N70-38504 *	NASA-CASE-XMS-05894-1	c 15	N69-21924 *	NASA-CASE-XNP-01152	c 15	N70-41811 *
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NASA-CASE-XMS-00863	c 05	N70-34857 *	NASA-CASE-XMS-05936	c 14	N70-41682 *	NASA-CASE-XNP-01185	c 26	N73-28710 *
NASA-CASE-XMS-00864	c 05	N70-36493 *	NASA-CASE-XMS-06056-1	c 23	N71-24857 *	NASA-CASE-XNP-01187	c 15	N73-28516 *
NASA-CASE-XMS-00893	c 07	N70-40063 *	NASA-CASE-XMS-06061	c 05	N71-23317 *	NASA-CASE-XNP-01188	c 15	N73-32361 *
NASA-CASE-XMS-00907	c 02	N70-41630 *	NASA-CASE-XMS-06064	c 05	N71-23096 *	NASA-CASE-XNP-01193	c 10	N71-16057 *
NASA-CASE-XMS-00913	c 10	N71-23543 *	NASA-CASE-XMS-06162	c 31	N71-28851 *	NASA-CASE-XNP-01263-2	c 15	N71-26312 *
NASA-CASE-XMS-00945	c 09	N71-10798 *	NASA-CASE-XMS-06236	c 14	N71-21007 *	NASA-CASE-XNP-01296	c 33	N75-27250 *
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NASA-CASE-XMS-01546	c 14	N70-40233 *	NASA-CASE-XMS-08589-1	c 09	N71-20569 *	NASA-CASE-XNP-01464	c 03	N71-10728 *
NASA-CASE-XMS-01554	c 10	N71-10578 *	NASA-CASE-XMS-09310	c 15	N71-22706 *	NASA-CASE-XNP-01466	c 10	N71-26434 *
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NASA-CASE-XMS-01618	c 14	N71-20741 *	NASA-CASE-XMS-09571	c 05	N71-19439 *	NASA-CASE-XNP-01501	c 21	N70-41930 *
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NASA-CASE-XNP-05634	c 15	N71-24834 *	US-Patent-4,890,036	c 33	N90-22724 *	US-PATENT-APPL-SN-043942	c 06	N82-16075 *	
NASA-CASE-XNP-05821	c 03	N71-11056 *				US-PATENT-APPL-SN-043943	c 33	N82-24419 *	
NASA-CASE-XNP-05975	c 15	N69-23185 *	US-PATENT-APPL-SN-000692	c 23	N89-12667 *	US-PATENT-APPL-SN-043944	c 24	N82-24296 *	
NASA-CASE-XNP-06028	c 09	N71-23189 *	US-PATENT-APPL-SN-003676	c 02	N88-23759 *	US-PATENT-APPL-SN-043945	c 47	N82-24779 *	
NASA-CASE-XNP-06031	c 15	N71-15606 *	US-PATENT-APPL-SN-003693	c 52	N81-14612 *	US-PATENT-APPL-SN-044180	c 35	N87-25558 *	#
NASA-CASE-XNP-06032	c 09	N69-21926 *	US-PATENT-APPL-SN-004282	c 60	N88-29310 *	US-PATENT-APPL-SN-044181	c 37	N88-23980 *	
NASA-CASE-XNP-06234	c 10	N71-27137 *	US-PATENT-APPL-SN-004304	c 05	N91-14345 *	US-PATENT-APPL-SN-044183	c 27	N89-29539 *	
NASA-CASE-XNP-06503	c 23	N71-29049 *	US-PATENT-APPL-SN-006952	c 27	N81-14077 *	US-PATENT-APPL-SN-044431	c 33	N81-27395 *	
NASA-CASE-XNP-06505	c 10	N71-24799 *	US-PATENT-APPL-SN-007083	c 26	N80-32484 *	US-PATENT-APPL-SN-044432	c 52	N81-20703 *	
NASA-CASE-XNP-06506	c 03	N71-11050 *	US-PATENT-APPL-SN-008199	c 25	N87-23713 *	US-PATENT-APPL-SN-045743	c 35	N88-24927 *	
NASA-CASE-XNP-06507	c 09	N71-23548 *	US-PATENT-APPL-SN-008207	c 32	N80-23524 *	US-PATENT-APPL-SN-045984	c 36	N88-24958 *	
NASA-CASE-XNP-06508	c 18	N69-39895 *	US-PATENT-APPL-SN-008208	c 37	N81-17432 *	US-PATENT-APPL-SN-046341	c 20	N89-25279 *	
NASA-CASE-XNP-06509	c 14	N71-23226 *	US-PATENT-APPL-SN-008209	c 32	N81-25278 *	US-PATENT-APPL-SN-046739	c 54	N81-24724 *	
NASA-CASE-XNP-06510	c 14	N71-23797 *	US-PATENT-APPL-SN-008210	c 05	N81-26114 *	US-PATENT-APPL-SN-051269	c 33	N81-24338 *	
NASA-CASE-XNP-06611	c 07	N71-26102 *	US-PATENT-APPL-SN-008211	c 74	N81-17887 *	US-PATENT-APPL-SN-051270	c 32	N80-32604 *	
NASA-CASE-XNP-06914	c 15	N71-21489 *	US-PATENT-APPL-SN-008212	c 44	N80-24741 *	US-PATENT-APPL-SN-051271	c 33	N81-26359 *	
NASA-CASE-XNP-06933	c 14	N73-32321 *	US-PATENT-APPL-SN-008242	c 27	N87-23737 *	US-PATENT-APPL-SN-051274	c 34	N81-26402 *	
NASA-CASE-XNP-06936	c 15	N71-24695 *	US-PATENT-APPL-SN-008895	c 08	N88-23809 *	US-PATENT-APPL-SN-051275	c 44	N82-24640 *	
NASA-CASE-XNP-06937	c 09	N71-19516 *	US-PATENT-APPL-SN-009886	c 31	N80-32583 *	US-PATENT-APPL-SN-051276	c 33	N81-33404 *	
NASA-CASE-XNP-06942	c 28	N71-23293 *	US-PATENT-APPL-SN-009887	c 28	N81-14103 *	US-PATENT-APPL-SN-052940	c 37	N89-13786 *	
NASA-CASE-XNP-06957	c 14	N71-21088 *	US-PATENT-APPL-SN-009888	c 37	N81-14320 *	US-PATENT-APPL-SN-052941	c 35	N87-25561 *	#
NASA-CASE-XNP-07040	c 08	N71-12500 *	US-PATENT-APPL-SN-009889	c 33	N81-27396 *	US-PATENT-APPL-SN-053566	c 09	N82-24212 *	
NASA-CASE-XNP-07169	c 15	N73-32362 *	US-PATENT-APPL-SN-010942	c 37	N88-14362 *	US-PATENT-APPL-SN-053569	c 35	N81-19426 *	
NASA-CASE-XNP-07477	c 09	N71-26092 *	US-PATENT-APPL-SN-010943	c 35	N89-12841 *	US-PATENT-APPL-SN-053571	c 31	N81-19343 *	
NASA-CASE-XNP-07478	c 14	N69-21923 *	US-PATENT-APPL-SN-010949	c 35	N90-23713 *	US-PATENT-APPL-SN-053572	c 32	N82-23376 *	
NASA-CASE-XNP-07481	c 25	N69-21929 *	US-PATENT-APPL-SN-010950	c 37	N88-14361 *	US-PATENT-APPL-SN-053652	c 33	N82-18494 *	
NASA-CASE-XNP-07659	c 06	N71-22975 *	US-PATENT-APPL-SN-011693	c 27	N87-24575 *	US-PATENT-APPL-SN-054501	c 23	N82-16174 *	
NASA-CASE-XNP-08124-2	c 06	N73-13129 *	US-PATENT-APPL-SN-011737	c 27	N81-14078 *	US-PATENT-APPL-SN-054980	c 35	N88-29149 *	
NASA-CASE-XNP-08124	c 15	N71-27184 *	US-PATENT-APPL-SN-013801	c 05	N88-23765 *	US-PATENT-APPL-SN-054982	c 23	N90-23475 *	
NASA-CASE-XNP-08274	c 10	N71-13537 *	US-PATENT-APPL-SN-013802	c 35	N88-23967 *	US-PATENT-APPL-SN-054983	c 37	N87-25585 *	#
NASA-CASE-XNP-08567	c 09	N71-26000 *	US-PATENT-APPL-SN-013803	c 33	N88-24862 *	US-PATENT-APPL-SN-054985	c 23	N90-20133 *	
NASA-CASE-XNP-08680	c 14	N71-22995 *	US-PATENT-APPL-SN-014663	c 31	N81-25259 *	US-PATENT-APPL-SN-056930	c 37	N88-23979 *	
NASA-CASE-XNP-08832	c 08	N71-12506 *	US-PATENT-APPL-SN-014664	c 44	N81-14389 *	US-PATENT-APPL-SN-057465	c 37	N81-17433 *	
NASA-CASE-XNP-08835-1	c 37	N80-14395 *	US-PATENT-APPL-SN-015983	c 02	N80-28300 *	US-PATENT-APPL-SN-057466	c 71	N81-15767 *	
NASA-CASE-XNP-08836	c 09	N71-12515 *	US-PATENT-APPL-SN-015995	c 08	N81-26152 *	US-PATENT-APPL-SN-057526	c 52	N81-25662 *	
NASA-CASE-XNP-08837	c 18	N71-16210 *	US-PATENT-APPL-SN-015996	c 08	N81-24106 *	US-PATENT-APPL-SN-060182	c 27	N89-12741 *	

US-PATENT-APPL-SN-060196	c 32	N89-11961 *	US-PATENT-APPL-SN-104188	c 09	N70-34819 *	US-PATENT-APPL-SN-125235	c 51	N77-25769 *
US-PATENT-APPL-SN-060200	c 09	N88-28939 *	US-PATENT-APPL-SN-104346	c 14	N73-28488 *	US-PATENT-APPL-SN-125236	c 14	N73-26431 *
US-PATENT-APPL-SN-060201	c 62	N87-25803 *	US-PATENT-APPL-SN-104884	c 15	N72-33476 *	US-PATENT-APPL-SN-125666	c 32	N89-28676 *
US-PATENT-APPL-SN-060435	c 44	N81-24520 *	US-PATENT-APPL-SN-104885	c 14	N73-24472 *	US-PATENT-APPL-SN-125676	c 35	N90-17118 *
US-PATENT-APPL-SN-060449	c 07	N82-32366 *	US-PATENT-APPL-SN-105518	c 23	N71-15978 *	US-PATENT-APPL-SN-125677	c 32	N90-20280 *
US-PATENT-APPL-SN-061327	c 32	N83-13323 *	US-PATENT-APPL-SN-105841	c 18	N89-28553 *	US-PATENT-APPL-SN-125678	c 38	N90-23756 *
US-PATENT-APPL-SN-061555	c 44	N81-29524 *	US-PATENT-APPL-SN-105847	c 31	N89-14351 *	US-PATENT-APPL-SN-125979	c 09	N72-25255 *
US-PATENT-APPL-SN-061556	c 35	N81-19427 *	US-PATENT-APPL-SN-106106	c 91	N74-13130 *	US-PATENT-APPL-SN-126063	c 44	N83-10501 *
US-PATENT-APPL-SN-061822	c 74	N83-19597 *	US-PATENT-APPL-SN-106118	c 32	N80-16261 *	US-PATENT-APPL-SN-126064	c 33	N82-18493 *
US-PATENT-APPL-SN-065676	c 35	N80-18364 *	US-PATENT-APPL-SN-106119	c 35	N82-15381 *	US-PATENT-APPL-SN-126138	c 34	N82-13376 *
US-PATENT-APPL-SN-065676	c 44	N81-12542 *	US-PATENT-APPL-SN-106135	c 28	N70-34294 *	US-PATENT-APPL-SN-12661	c 14	N72-22437 *
US-PATENT-APPL-SN-066450	c 29	N87-25489 *	US-PATENT-APPL-SN-106136	c 33	N82-26572 *	US-PATENT-APPL-SN-127234	c 08	N70-35423 *
US-PATENT-APPL-SN-067595	c 08	N82-24205 *	US-PATENT-APPL-SN-106188	c 27	N80-16163 *	US-PATENT-APPL-SN-127480	c 37	N75-26371 *
US-PATENT-APPL-SN-067596	c 51	N81-28698 *	US-PATENT-APPL-SN-106192	c 34	N83-28356 *	US-PATENT-APPL-SN-127481	c 24	N75-28135 *
US-PATENT-APPL-SN-067844	c 34	N89-14392 *	US-PATENT-APPL-SN-106424	c 17	N73-24569 *	US-PATENT-APPL-SN-127618	c 02	N73-13008 *
US-PATENT-APPL-SN-067846	c 31	N90-21216 *	US-PATENT-APPL-SN-106465	c 30	N73-12884 *	US-PATENT-APPL-SN-127647	c 15	N73-27405 *
US-PATENT-APPL-SN-069485	c 33	N82-24420 *	US-PATENT-APPL-SN-107298	c 32	N73-13921 *	US-PATENT-APPL-SN-127915	c 02	N73-26004 *
US-PATENT-APPL-SN-070366	c 35	N82-11431 *	US-PATENT-APPL-SN-107376	c 15	N73-25513 *	US-PATENT-APPL-SN-127984	c 33	N75-27250 *
US-PATENT-APPL-SN-070771	c 27	N81-17260 *	US-PATENT-APPL-SN-107379	c 10	N72-33230 *	US-PATENT-APPL-SN-128229	c 35	N82-24471 *
US-PATENT-APPL-SN-070774	c 33	N82-26571 *	US-PATENT-APPL-SN-107380	c 28	N73-13773 *	US-PATENT-APPL-SN-128230	c 60	N84-28491 *
US-PATENT-APPL-SN-071686	c 27	N90-16950 *	US-PATENT-APPL-SN-107659	c 23	N73-20741 *	US-PATENT-APPL-SN-128419	c 14	N73-20477 *
US-PATENT-APPL-SN-072857	c 24	N82-32417 *	US-PATENT-APPL-SN-107866	c 17	N70-36616 *	US-PATENT-APPL-SN-129071	c 09	N72-25254 *
US-PATENT-APPL-SN-073477	c 36	N82-32712 *	US-PATENT-APPL-SN-107870	c 15	N70-36411 *	US-PATENT-APPL-SN-129072	c 15	N73-13467 *
US-PATENT-APPL-SN-073539	c 18	N87-29586 *	US-PATENT-APPL-SN-108107	c 37	N82-18601 *	US-PATENT-APPL-SN-129073	c 15	N73-13464 *
US-PATENT-APPL-SN-073541	c 33	N90-19492 *	US-PATENT-APPL-SN-10812	c 28	N70-40367 *	US-PATENT-APPL-SN-129379	c 37	N79-33468 *
US-PATENT-APPL-SN-073579	c 33	N82-24415 *	US-PATENT-APPL-SN-10827	c 14	N72-28436 *	US-PATENT-APPL-SN-129579	c 28	N70-35381 *
US-PATENT-APPL-SN-074792	c 35	N88-30108 *	US-PATENT-APPL-SN-108331	c 26	N89-14303 *	US-PATENT-APPL-SN-129778	c 60	N82-24839 *
US-PATENT-APPL-SN-076643	c 32	N81-29308 *	US-PATENT-APPL-SN-108810	c 33	N77-22386 *	US-PATENT-APPL-SN-129779	c 60	N82-16747 *
US-PATENT-APPL-SN-076955	c 16	N90-22584 *	US-PATENT-APPL-SN-108824	c 31	N73-13898 *	US-PATENT-APPL-SN-129780	c 44	N82-24639 *
US-PATENT-APPL-SN-076956	c 35	N88-29151 *	US-PATENT-APPL-SN-109789	c 09	N70-34596 *	US-PATENT-APPL-SN-129783	c 04	N82-23231 *
US-PATENT-APPL-SN-078521	c 32	N81-14186 *	US-PATENT-APPL-SN-110388	c 18	N90-16860 *	US-PATENT-APPL-SN-129793	c 33	N82-16340 *
US-PATENT-APPL-SN-078611	c 04	N81-21047 *	US-PATENT-APPL-SN-110402	c 09	N72-27226 *	US-PATENT-APPL-SN-129798	c 27	N81-27271 *
US-PATENT-APPL-SN-078612	c 46	N82-12685 *	US-PATENT-APPL-SN-110591	c 15	N70-39896 *	US-PATENT-APPL-SN-129799	c 27	N82-18389 *
US-PATENT-APPL-SN-079316	c 26	N87-29650 *	US-PATENT-APPL-SN-111436	c 33	N82-26569 *	US-PATENT-APPL-SN-130058	c 33	N90-22723 *
US-PATENT-APPL-SN-079317	c 37	N88-30131 *	US-PATENT-APPL-SN-111438	c 35	N81-29407 *	US-PATENT-APPL-SN-130353	c 31	N73-14853 *
US-PATENT-APPL-SN-079320	c 27	N87-29672 *	US-PATENT-APPL-SN-111439	c 74	N81-24900 *	US-PATENT-APPL-SN-130496	c 36	N83-10417 *
US-PATENT-APPL-SN-079913	c 05	N82-28279 *	US-PATENT-APPL-SN-111998	c 21	N73-30640 *	US-PATENT-APPL-SN-132364	c 07	N83-36029 *
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US-PATENT-APPL-SN-084770	c 32	N88-29076 *	US-PATENT-APPL-SN-112988	c 07	N72-32169 *	US-PATENT-APPL-SN-133413	c 27	N90-23544 *
US-PATENT-APPL-SN-085833	c 62	N91-14772 *	US-PATENT-APPL-SN-112998	c 14	N73-12445 *	US-PATENT-APPL-SN-134479	c 14	N70-33179 *
US-PATENT-APPL-SN-087281	c 52	N90-20616 *	US-PATENT-APPL-SN-112999	c 23	N72-25619 *	US-PATENT-APPL-SN-134481	c 11	N70-33415 *
US-PATENT-APPL-SN-087282	c 31	N89-12785 *	US-PATENT-APPL-SN-112999	c 32	N79-19186 *	US-PATENT-APPL-SN-134567	c 14	N73-16484 *
US-PATENT-APPL-SN-087283	c 71	N89-13236 *	US-PATENT-APPL-SN-113014	c 27	N81-24257 *	US-PATENT-APPL-SN-134568	c 06	N72-31141 *
US-PATENT-APPL-SN-087358	c 51	N91-14703 *	US-PATENT-APPL-SN-113015	c 37	N82-24491 *	US-PATENT-APPL-SN-134571	c 21	N73-13644 *
US-PATENT-APPL-SN-087359	c 35	N89-14422 *	US-PATENT-APPL-SN-113954	c 33	N90-23636 *	US-PATENT-APPL-SN-134573	c 09	N72-25257 *
US-PATENT-APPL-SN-087375	c 27	N90-23545 *	US-PATENT-APPL-SN-113956	c 60	N90-21527 *	US-PATENT-APPL-SN-134619	c 35	N79-33449 *
US-PATENT-APPL-SN-087375	c 23	N91-14419 *	US-PATENT-APPL-SN-114772	c 04	N76-26175 *	US-PATENT-APPL-SN-134658	c 15	N73-28515 *
US-PATENT-APPL-SN-087376	c 27	N91-14489 *	US-PATENT-APPL-SN-114846	c 14	N73-12444 *	US-PATENT-APPL-SN-134782	c 09	N70-36494 *
US-PATENT-APPL-SN-088663	c 28	N82-18401 *	US-PATENT-APPL-SN-114847	c 15	N72-28496 *	US-PATENT-APPL-SN-134855	c 44	N81-24521 *
US-PATENT-APPL-SN-089779	c 26	N81-25188 *	US-PATENT-APPL-SN-114848	c 11	N72-23215 *	US-PATENT-APPL-SN-135038	c 33	N83-31954 *
US-PATENT-APPL-SN-090584	c 74	N81-19896 *	US-PATENT-APPL-SN-114849	c 09	N72-27227 *	US-PATENT-APPL-SN-135039	c 33	N82-24416 *
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US-PATENT-APPL-SN-0914	c 28	N70-38711 *	US-PATENT-APPL-SN-115082	c 18	N73-13562 *	US-PATENT-APPL-SN-135056	c 37	N81-33483 *
US-PATENT-APPL-SN-092141	c 27	N81-29229 *	US-PATENT-APPL-SN-115083	c 07	N73-25160 *	US-PATENT-APPL-SN-135057	c 08	N82-32373 *
US-PATENT-APPL-SN-092142	c 27	N82-11206 *	US-PATENT-APPL-SN-115134	c 06	N73-13128 *	US-PATENT-APPL-SN-135058	c 25	N82-26396 *
US-PATENT-APPL-SN-092143	c 32	N82-18443 *	US-PATENT-APPL-SN-115536	c 33	N82-24417 *	US-PATENT-APPL-SN-135120	c 37	N88-23973 *
US-PATENT-APPL-SN-092145	c 37	N82-12442 *	US-PATENT-APPL-SN-115944	c 03	N71-34044 *	US-PATENT-APPL-SN-136006	c 09	N72-28225 *
US-PATENT-APPL-SN-093417	c 37	N90-17154 *	US-PATENT-APPL-SN-116777	c 09	N73-19235 *	US-PATENT-APPL-SN-136007	c 09	N71-34212 *
US-PATENT-APPL-SN-093714	c 44	N81-29525 *	US-PATENT-APPL-SN-116778	c 09	N72-33205 *	US-PATENT-APPL-SN-136008	c 27	N74-13270 *
US-PATENT-APPL-SN-095217	c 74	N81-18988 *	US-PATENT-APPL-SN-116786	c 07	N72-25172 *	US-PATENT-APPL-SN-136085	c 17	N73-12547 *
US-PATENT-APPL-SN-096255	c 37	N80-18400 *	US-PATENT-APPL-SN-116790	c 14	N73-30388 *	US-PATENT-APPL-SN-136086	c 15	N73-19457 *
US-PATENT-APPL-SN-096255	c 37	N82-19540 *	US-PATENT-APPL-SN-116810	c 33	N88-26596 *	US-PATENT-APPL-SN-136253	c 27	N74-12814 *
US-PATENT-APPL-SN-096257	c 37	N82-24490 *	US-PATENT-APPL-SN-116811	c 35	N90-21358 *	US-PATENT-APPL-SN-136652	c 07	N84-24577 *
US-PATENT-APPL-SN-098568	c 33	N82-11357 *	US-PATENT-APPL-SN-117575	c 08	N73-12177 *	US-PATENT-APPL-SN-136660	c 31	N83-34073 *
US-PATENT-APPL-SN-098569	c 44	N82-16474 *	US-PATENT-APPL-SN-118169	c 14	N70-35220 *	US-PATENT-APPL-SN-137391	c 36	N75-31426 *
US-PATENT-APPL-SN-098570	c 44	N82-18686 *	US-PATENT-APPL-SN-118200	c 15	N70-34247 *	US-PATENT-APPL-SN-137912	c 06	N72-21105 *
US-PATENT-APPL-SN-100611	c 37	N82-32732 *	US-PATENT-APPL-SN-118202	c 28	N70-38710 *	US-PATENT-APPL-SN-138227	c 26	N72-27784 *
US-PATENT-APPL-SN-100637	c 37	N75-18574 *	US-PATENT-APPL-SN-118203	c 14	N70-38602 *	US-PATENT-APPL-SN-138229	c 15	N72-32487 *
US-PATENT-APPL-SN-100639	c 14	N72-32452 *	US-PATENT-APPL-SN-118269	c 33	N73-26958 *	US-PATENT-APPL-SN-138230	c 32	N73-20740 *
US-PATENT-APPL-SN-100774	c 06	N72-25151 *	US-PATENT-APPL-SN-118270	c 09	N72-25260 *	US-PATENT-APPL-SN-138944	c 37	N82-26672 *
US-PATENT-APPL-SN-100774	c 06	N73-32030 *	US-PATENT-APPL-SN-11853	c 15	N71-28951 *	US-PATENT-APPL-SN-139006	c 09	N70-38604 *
US-PATENT-APPL-SN-100996	c 08	N73-13187 *	US-PATENT-APPL-SN-118992	c 37	N88-29181 *	US-PATENT-APPL-SN-139007	c 28	N70-37245 *
US-PATENT-APPL-SN-101029	c 31	N70-38676 *	US-PATENT-APPL-SN-118993	c 52	N90-21519 *	US-PATENT-APPL-SN-139012	c 03	N70-38713 *
US-PATENT-APPL-SN-101214	c 14	N73-26430 *	US-PATENT-APPL-SN-118995	c 32	N89-25363 *	US-PATENT-APPL-SN-139094	c 05	N73-32011 *
US-PATENT-APPL-SN-101354	c 10	N73-16205 *	US-PATENT-APPL-SN-119282	c 03	N72-23048 *	US-PATENT-APPL-SN-139250	c 04	N73-27052 *
US-PATENT-APPL-SN-10161	c 33	N72-20915 *	US-PATENT-APPL-SN-119334	c 31	N88-29052 *	US-PATENT-APPL-SN-139528	c 03	N72-25020 *
US-PATENT-APPL-SN-102001	c 36	N82-16396 *	US-PATENT-APPL-SN-119335	c 37	N82-24494 *	US-PATENT-APPL-SN-139596	c 33	N77-13315 *
US-PATENT-APPL-SN-102002	c 18	N81-29152 *	US-PATENT-APPL-SN-119336	c 33	N82-24421 *	US-PATENT-APPL-SN-140439	c 33	N75-19518 *
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US-PATENT-APPL-SN-195223	c 35	N83-21311 *	US-PATENT-APPL-SN-209801	c 08	N70-40125 *	US-PATENT-APPL-SN-225499	c 37	N84-12491 *
US-PATENT-APPL-SN-195225	c 32	N88-26541 *	US-PATENT-APPL-SN-210277	c 39	N88-30160 *	US-PATENT-APPL-SN-225501	c 44	N82-28780 *
US-PATENT-APPL-SN-195226	c 31	N83-31895 *	US-PATENT-APPL-SN-210405	c 74	N84-11921 *	US-PATENT-APPL-SN-226476	c 10	N73-32143 *
US-PATENT-APPL-SN-195226	c 17	N90-21061 *	US-PATENT-APPL-SN-210480	c 05	N90-20078 *	US-PATENT-APPL-SN-226477	c 74	N74-27866 *
US-PATENT-APPL-SN-195227	c 74	N83-32577 *	US-PATENT-APPL-SN-210486	c 26	N90-21170 *	US-PATENT-APPL-SN-226551	c 06	N73-26100 *
US-PATENT-APPL-SN-195228	c 74	N83-10900 *	US-PATENT-APPL-SN-210487	c 35	N90-17117 *	US-PATENT-APPL-SN-227682	c 14	N70-34161 *
US-PATENT-APPL-SN-195346	c 15	N70-36492 *	US-PATENT-APPL-SN-210498	c 35	N84-12444 *	US-PATENT-APPL-SN-227683	c 02	N70-36804 *
US-PATENT-APPL-SN-195347	c 31	N70-34135 *	US-PATENT-APPL-SN-210506	c 39	N83-32081 *	US-PATENT-APPL-SN-227692	c 14	N70-40003 *
US-PATENT-APPL-SN-195547	c 32	N83-18975 *	US-PATENT-APPL-SN-210632	c 26	N83-10170 *	US-PATENT-APPL-SN-227977	c 25	N76-18245 *
US-PATENT-APPL-SN-195563	c 09	N91-14357 *	US-PATENT-APPL-SN-211332	c 02	N74-10034 *	US-PATENT-APPL-SN-228049	c 37	N79-33467 *
US-PATENT-APPL-SN-19572	c 35	N77-27368 *	US-PATENT-APPL-SN-211411	c 11	N73-20267 *	US-PATENT-APPL-SN-228150	c 05	N73-32013 *
US-PATENT-APPL-SN-19585	c 15	N72-25455 *	US-PATENT-APPL-SN-211464	c 28	N70-36910 *	US-PATENT-APPL-SN-228163	c 44	N74-19693 *
US-PATENT-APPL-SN-196399	c 07	N73-25161 *	US-PATENT-APPL-SN-212028	c 09	N73-14214 *	US-PATENT-APPL-SN-228189	c 35	N74-11283 *
US-PATENT-APPL-SN-196877	c 35	N84-17555 *	US-PATENT-APPL-SN-212165	c 14	N73-25460 *	US-PATENT-APPL-SN-228190	c 23	N73-30666 *
US-PATENT-APPL-SN-196898	c 38	N74-15130 *	US-PATENT-APPL-SN-212173	c 02	N71-13421 *	US-PATENT-APPL-SN-228229	c 27	N77-31308 *
US-PATENT-APPL-SN-196931	c 35	N74-17885 *	US-PATENT-APPL-SN-212174	c 15	N70-34859 *	US-PATENT-APPL-SN-228507	c 11	N70-38182 *
US-PATENT-APPL-SN-196970	c 15	N73-33383 *	US-PATENT-APPL-SN-212496	c 03	N70-36803 *	US-PATENT-APPL-SN-228569	c 14	N71-16014 *
US-PATENT-APPL-SN-197183	c 02	N76-22154 *	US-PATENT-APPL-SN-212497	c 11	N71-28779 *	US-PATENT-APPL-SN-229128	c 14	N73-28490 *
US-PATENT-APPL-SN-197191	c 32	N89-28672 *	US-PATENT-APPL-SN-21263	c 01	N71-12217 *	US-PATENT-APPL-SN-229143	c 09	N72-21248 *
US-PATENT-APPL-SN-197548	c 09	N70-34502 *	US-PATENT-APPL-SN-212900	c 14	N73-25462 *	US-PATENT-APPL-SN-229143	c 33	N77-26387 *
US-PATENT-APPL-SN-197551	c 31	N70-34296 *	US-PATENT-APPL-SN-212921	c 07	N73-20176 *	US-PATENT-APPL-SN-229231	c 35	N83-34272 *
US-PATENT-APPL-SN-197553	c 08	N70-34778 *	US-PATENT-APPL-SN-212949	c 35	N83-35338 *	US-PATENT-APPL-SN-229233	c 27	N83-31855 *
US-PATENT-APPL-SN-197554	c 14	N70-35368 *	US-PATENT-APPL-SN-212977	c 15	N73-30460 *	US-PATENT-APPL-SN-229239	c 31	N83-31897 *
US-PATENT-APPL-SN-197689	c 31	N74-14133 *	US-PATENT-APPL-SN-213004	c 14	N73-19421 *	US-PATENT-APPL-SN-229286	c 33	N71-29052 *
US-PATENT-APPL-SN-197689	c 31	N75-13111 *	US-PATENT-APPL-SN-213392	c 27	N90-23566 *	US-PATENT-APPL-SN-229287	c 35	N78-29421 *
US-PATENT-APPL-SN-197870	c 14	N73-32322 *	US-PATENT-APPL-SN-213558	c 51	N89-13131 *	US-PATENT-APPL-SN-229354	c 62	N74-14920 *
US-PATENT-APPL-SN-198093	c 39	N83-20280 *	US-PATENT-APPL-SN-213559	c 51	N89-14666 *	US-PATENT-APPL-SN-229413	c 14	N73-32233 *
US-PATENT-APPL-SN-198285	c 09	N73-13208 *	US-PATENT-APPL-SN-213836	c 15	N70-38601 *	US-PATENT-APPL-SN-229693	c 37	N84-22958 *
US-PATENT-APPL-SN-198289	c 14	N73-32326 *	US-PATENT-APPL-SN-213880	c 54	N89-12206 *	US-PATENT-APPL-SN-229916	c 46	N74-13011 *
US-PATENT-APPL-SN-198355	c 05	N72-15098 *	US-PATENT-APPL-SN-213880	c 54	N90-25498 *	US-PATENT-APPL-SN-230613	c 05	N83-27975 *
US-PATENT-APPL-SN-198362	c 14	N73-28489 *	US-PATENT-APPL-SN-213949	c 07	N73-20175 *	US-PATENT-APPL-SN-231025	c 33	N88-29095 *
US-PATENT-APPL-SN-198379	c 15	N73-32359 *	US-PATENT-APPL-SN-214006	c 37	N74-18126 *	US-PATENT-APPL-SN-231026	c 27	N91-15402 *
US-PATENT-APPL-SN-198472	c 27	N74-12812 *	US-PATENT-APPL-SN-214084	c 37	N74-18123 *	US-PATENT-APPL-SN-231027	c 27	N90-21177 *
US-PATENT-APPL-SN-198763	c 31	N74-18124 *	US-PATENT-APPL-SN-214086	c 14	N73-30395 *	US-PATENT-APPL-SN-23132	c 08	N72-22163 *
US-PATENT-APPL-SN-198763	c 31	N74-32920 *	US-PATENT-APPL-SN-214089	c 35	N74-21018 *	US-PATENT-APPL-SN-231520	c 27	N71-29155 *
US-PATENT-APPL-SN-198885	c 05	N73-27062 *	US-PATENT-APPL-SN-214361	c 37	N83-32067 *	US-PATENT-APPL-SN-231543	c 07	N83-20944 *
US-PATENT-APPL-SN-199199	c 25	N71-29184 *	US-PATENT-APPL-SN-215058	c 08	N72-20176 *	US-PATENT-APPL-SN-231604	c 28	N70-39925 *
US-PATENT-APPL-SN-199202	c 14	N70-40239 *	US-PATENT-APPL-SN-21644	c 05	N72-22092 *	US-PATENT-APPL-SN-231662	c 14	N73-30392 *
US-PATENT-APPL-SN-19971	c 09	N70-33312 *	US-PATENT-APPL-SN-216710	c 12	N70-38997 *	US-PATENT-APPL-SN-232021	c 04	N74-13420 *
US-PATENT-APPL-SN-199765	c 33	N81-12330 *	US-PATENT-APPL-SN-216711	c 03	N70-34157 *	US-PATENT-APPL-SN-232318	c 11	N71-15960 *
US-PATENT-APPL-SN-199766	c 36	N84-28065 *	US-PATENT-APPL-SN-216939	c 14	N70-40400 *	US-PATENT-APPL-SN-232734	c 29	N90-20236 *
US-PATENT-APPL-SN-199767	c 33	N83-16626 *	US-PATENT-APPL-SN-217213	c 37	N74-11301 *	US-PATENT-APPL-SN-232735	c 76	N90-24150 *
US-PATENT-APPL-SN-199768	c 27	N84-22746 *	US-PATENT-APPL-SN-21732	c 15	N70-26819 *	US-PATENT-APPL-SN-232914	c 15	N70-36412 *
US-PATENT-APPL-SN-199768	c 27	N85-20123 *	US-PATENT-APPL-SN-217336	c 27	N82-29456 *	US-PATENT-APPL-SN-233098	c 12	N73-25262 *
US-PATENT-APPL-SN-199769	c 26	N82-31505 *	US-PATENT-APPL-SN-217533	c 76	N88-29602 *	US-PATENT-APPL-SN-233173	c 12	N73-28144 *
US-PATENT-APPL-SN-199957	c 10	N73-26229 *	US-PATENT-APPL-SN-217725	c 35	N91-15511 *	US-PATENT-APPL-SN-233269	c 76	N82-30105 *
US-PATENT-APPL-SN-200040	c 52	N74-10975 *	US-PATENT-APPL-SN-218585	c 27	N82-24340 *	US-PATENT-APPL-SN-233270	c 52	N83-27578 *
US-PATENT-APPL-SN-200085	c 26	N73-26751 *	US-PATENT-APPL-SN-218586	c 36	N81-22344 *	US-PATENT-APPL-SN-233271	c 27	N83-34043 *
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US-PATENT-APPL-SN-200682	c 07	N73-14130 *	US-PATENT-APPL-SN-218588	c 27	N82-33521 *	US-PATENT-APPL-SN-233587	c 16	N72-22520 *
US-PATENT-APPL-SN-200717	c 09	N73-19234 *	US-PATENT-APPL-SN-218965	c 10	N73-32145 *	US-PATENT-APPL-SN-233743	c 37	N74-13179 *
US-PATENT-APPL-SN-200762	c 03	N73-20040 *	US-PATENT-APPL-SN-21906	c 09	N72-17157 *	US-PATENT-APPL-SN-234222	c 34	N85-21568 *
US-PATENT-APPL-SN-200770	c 09	N79-21084 *	US-PATENT-APPL-SN-219295	c 61	N91-14741 *	US-PATENT-APPL-SN-234223	c 35	N83-21312 *
US-PATENT-APPL-SN-200874	c 17	N88-28946 *	US-PATENT-APPL-SN-219435	c 24	N74-27035 *	US-PATENT-APPL-SN-234224	c 36	N83-34304 *
US-PATENT-APPL-SN-201700	c 33	N74-17930 *	US-PATENT-APPL-SN-219436	c 15	N72-21489 *	US-PATENT-APPL-SN-234225	c 33	N83-36357 *
US-PATENT-APPL-SN-201782	c 15	N73-19458 *	US-PATENT-APPL-SN-219590	c 06	N73-32030 *	US-PATENT-APPL-SN-234568	c 28	N70-34788 *
US-PATENT-APPL-SN-201904	c 15	N73-30458 *	US-PATENT-APPL-SN-219640	c 74	N83-13978 *	US-PATENT-APPL-SN-235150	c 36	N91-15528 *
US-PATENT-APPL-SN-201904	c 37	N74-15128 *	US-PATENT-APPL-SN-219677	c 44	N82-31764 *	US-PATENT-APPL-SN-235162	c 08	N71-12501 *
US-PATENT-APPL-SN-201904	c 37	N74-21064 *	US-PATENT-APPL-SN-219678	c 44	N82-29709 *	US-PATENT-APPL-SN-235266	c 26	N73-32571 *
US-PATENT-APPL-SN-202024	c 14	N70-34156 *	US-PATENT-APPL-SN-219680	c 27	N82-28442 *	US-PATENT-APPL-SN-235268	c 36	N74-15145 *
US-PATENT-APPL-SN-202029	c 11	N70-34786 *	US-PATENT-APPL-SN-219681	c 24	N82-29362 *	US-PATENT-APPL-SN-235269	c 09	N73-30181 *
US-PATENT-APPL-SN-202030	c 31	N71-10747 *	US-PATENT-APPL-SN-219681	c 54	N84-11758 *	US-PATENT-APPL-SN-235295	c 09	N73-30185 *
US-PATENT-APPL-SN-202228	c 34	N82-11399 *	US-PATENT-APPL-SN-219722	c 03	N75-30132 *	US-PATENT-APPL-SN-235332	c 07	N72-21117 *
US-PATENT-APPL-SN-202228	c 34	N85-29179 *	US-PATENT-APPL-SN-219806	c 07	N74-28226 *	US-PATENT-APPL-SN-235338	c 71	N74-31148 *
US-PATENT-APPL-SN-202750	c 19	N74-21015 *	US-PATENT-APPL-SN-219968	c 33	N83-27126 *	US-PATENT-APPL-SN-235472	c 60	N84-28492 *
US-PATENT-APPL-SN-202769	c 05	N73-27941 *	US-PATENT-APPL-SN-220212	c 33	N83-31952 *	US-PATENT-APPL-SN-235588	c 28	N71-28928 *
US-PATENT-APPL-SN-203177	c 39	N88-25011 *	US-PATENT-APPL-SN-220213	c 37	N85-20337 *	US-PATENT-APPL-SN-235796	c 35	N82-28604 *
US-PATENT-APPL-SN-203178	c 34	N90-19534 *	US-PATENT-APPL-SN-220214	c 44	N82-29710 *	US-PATENT-APPL-SN-235797	c 44	N83-32175 *
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US-PATENT-APPL-SN-203376	c 32	N88-30001 *	US-PATENT-APPL-SN-220274	c 31	N72-20840 *	US-PATENT-APPL-SN-235957	c 14	N73-27376 *
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US-PATENT-APPL-SN-205675	c 14	N73-30386 *	US-PATENT-APPL-SN-221472	c 54	N89-13889 *	US-PATENT-APPL-SN-237029	c 09	N73-32108 *
US-PATENT-APPL-SN-205771	c 31	N89-29578 *	US-PATENT-APPL-SN-221634	c 05	N70-34857 *	US-PATENT-APPL-SN-237035	c 35	N91-15512 *
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US-PATENT-APPL-SN-205899	c 35	N90-22769 *	US-PATENT-APPL-SN-221670	c 35	N77-14408 *	US-PATENT-APPL-SN-237491	c 05	N75-12930 *
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US-PATENT-APPL-SN-206266	c 76	N74-20329 *	US-PATENT-APPL-SN-221714	c 09	N73-32110 *	US-PATENT-APPL-SN-237694	c 35	N74-11284 *
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US-PATENT-APPL-SN-206279	c 05	N76-29217 *	US-PATENT-APPL-SN-22265	c 14	N72-21405 *	US-PATENT-APPL-SN-238263	c 35	N74-10415 *
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US-PATENT-APPL-SN-206598	c 15	N73-30459 *	US-PATENT-APPL-SN-223122	c 37	N91-14614 *	US-PATENT-APPL-SN-238264	c 37	N74-32921 *
US-PATENT-APPL-SN-207135	c 35	N83-27184 *	US-PATENT-APPL-SN-223124	c 31	N90-19427 *	US-PATENT-APPL-SN-238264	c 37	N76-15461 *
US-PATENT-APPL-SN-207211	c 07	N73-30113 *	US-PATENT-APPL-SN-22320	c 14	N72-11365 *	US-PATENT-APPL-SN-238421	c 28	N71-29153 *
US-PATENT-APPL-SN-207478	c 07	N70-38200 *	US-PATENT-APPL-SN-223560	c 10	N73-32144 *	US-PATENT-APPL-SN-238785	c 44	N83-14693 *
US-PATENT-APPL-S								

US-PATENT-APPL-SN-238826	c 28	N77-10213 *	US-PATENT-APPL-SN-250585	c 32	N85-21428 *	US-PATENT-APPL-SN-266822	c 32	N74-10132 *
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US-PATENT-APPL-SN-239577	c 35	N74-13132 *	US-PATENT-APPL-SN-251439	c 31	N90-20254 *	US-PATENT-APPL-SN-266930	c 54	N74-12779 *
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US-PATENT-APPL-SN-24155	c 14	N73-26432 *	US-PATENT-APPL-SN-252081	c 05	N90-20079 *	US-PATENT-APPL-SN-269073	c 52	N74-26625 *
US-PATENT-APPL-SN-241614	c 10	N73-27171 *	US-PATENT-APPL-SN-252259	c 33	N70-34545 *	US-PATENT-APPL-SN-269212	c 07	N71-10775 *
US-PATENT-APPL-SN-241615	c 09	N73-32111 *	US-PATENT-APPL-SN-253249	c 33	N74-11050 *	US-PATENT-APPL-SN-269215	c 14	N70-41332 *
US-PATENT-APPL-SN-242027	c 52	N74-12778 *	US-PATENT-APPL-SN-253405	c 10	N73-26228 *	US-PATENT-APPL-SN-269222	c 15	N70-38225 *
US-PATENT-APPL-SN-242028	c 21	N73-30641 *	US-PATENT-APPL-SN-253725	c 35	N74-13129 *	US-PATENT-APPL-SN-269450	c 36	N76-18427 *
US-PATENT-APPL-SN-24224	c 09	N72-20200 *	US-PATENT-APPL-SN-253774	c 25	N70-36946 *	US-PATENT-APPL-SN-270118	c 33	N71-17610 *
US-PATENT-APPL-SN-242253	c 03	N91-15142 *	US-PATENT-APPL-SN-254173	c 35	N75-12313 *	US-PATENT-APPL-SN-270189	c 07	N89-23466 * #
US-PATENT-APPL-SN-242662	c 74	N74-15095 *	US-PATENT-APPL-SN-254177	c 10	N73-26230 *	US-PATENT-APPL-SN-270763	c 36	N84-14509 *
US-PATENT-APPL-SN-242790	c 06	N83-33882 *	US-PATENT-APPL-SN-254323	c 35	N76-15434 *	US-PATENT-APPL-SN-271265	c 71	N91-14807 *
US-PATENT-APPL-SN-242795	c 18	N83-20996 *	US-PATENT-APPL-SN-254575	c 25	N83-10126 *	US-PATENT-APPL-SN-271821	c 15	N71-10778 *
US-PATENT-APPL-SN-242795	c 37	N84-22957 *	US-PATENT-APPL-SN-254688	c 52	N83-27577 *	US-PATENT-APPL-SN-271822	c 15	N71-15967 *
US-PATENT-APPL-SN-242796	c 44	N83-13579 *	US-PATENT-APPL-SN-254847	c 15	N71-22874 *	US-PATENT-APPL-SN-271823	c 27	N71-28929 *
US-PATENT-APPL-SN-242797	c 74	N85-22139 *	US-PATENT-APPL-SN-254847	c 08	N72-21197 *	US-PATENT-APPL-SN-271824	c 07	N71-21476 *
US-PATENT-APPL-SN-243374	c 15	N77-10112 *	US-PATENT-APPL-SN-254888	c 08	N72-25206 *	US-PATENT-APPL-SN-271951	c 35	N74-15092 *
US-PATENT-APPL-SN-243682	c 74	N83-19596 *	US-PATENT-APPL-SN-255132	c 14	N71-15598 *	US-PATENT-APPL-SN-272152	c 27	N83-29388 *
US-PATENT-APPL-SN-243683	c 33	N81-22280 * #	US-PATENT-APPL-SN-256317	c 52	N74-26626 *	US-PATENT-APPL-SN-272233	c 44	N81-27615 * #
US-PATENT-APPL-SN-243683	c 33	N83-28319 *	US-PATENT-APPL-SN-256484	c 06	N70-34946 *	US-PATENT-APPL-SN-272234	c 25	N83-13188 *
US-PATENT-APPL-SN-243683	c 33	N84-14424 *	US-PATENT-APPL-SN-256493	c 20	N77-17143 *	US-PATENT-APPL-SN-272406	c 33	N84-14422 *
US-PATENT-APPL-SN-243683	c 33	N84-33660 *	US-PATENT-APPL-SN-257346	c 15	N70-36901 *	US-PATENT-APPL-SN-272407	c 52	N83-21785 *
US-PATENT-APPL-SN-243684	c 37	N84-12492 *	US-PATENT-APPL-SN-257593	c 36	N90-25340 *	US-PATENT-APPL-SN-272837	c 71	N83-36846 *
US-PATENT-APPL-SN-243685	c 05	N91-14345 *	US-PATENT-APPL-SN-258152	c 35	N74-15090 *	US-PATENT-APPL-SN-273222	c 33	N74-27683 *
US-PATENT-APPL-SN-244158	c 32	N74-20863 *	US-PATENT-APPL-SN-258171	c 34	N74-27744 *	US-PATENT-APPL-SN-273240	c 35	N74-16135 *
US-PATENT-APPL-SN-244367	c 74	N89-13253 * #	US-PATENT-APPL-SN-258331	c 03	N73-31988 *	US-PATENT-APPL-SN-273400	c 15	N72-20442 *
US-PATENT-APPL-SN-244369	c 29	N90-21209 *	US-PATENT-APPL-SN-258623	c 60	N83-32342 *	US-PATENT-APPL-SN-273519	c 35	N75-25122 *
US-PATENT-APPL-SN-244377	c 31	N91-15424 *	US-PATENT-APPL-SN-258931	c 14	N70-40203 *	US-PATENT-APPL-SN-273534	c 09	N70-38712 *
US-PATENT-APPL-SN-244440	c 21	N73-19630 * #	US-PATENT-APPL-SN-258932	c 05	N70-36493 *	US-PATENT-APPL-SN-274348	c 60	N76-18800 *
US-PATENT-APPL-SN-244440	c 14	N73-92320 *	US-PATENT-APPL-SN-259056	c 27	N82-29455 *	US-PATENT-APPL-SN-274360	c 32	N74-20809 *
US-PATENT-APPL-SN-244519	c 37	N74-18125 *	US-PATENT-APPL-SN-259208	c 44	N85-30474 *	US-PATENT-APPL-SN-274705	c 44	N83-21503 *
US-PATENT-APPL-SN-244523	c 31	N73-30829 *	US-PATENT-APPL-SN-259209	c 01	N83-35992 *	US-PATENT-APPL-SN-274706	c 44	N83-21504 *
US-PATENT-APPL-SN-244566	c 74	N74-20008 *	US-PATENT-APPL-SN-259210	c 32	N83-27085 *	US-PATENT-APPL-SN-274708	c 35	N84-22929 *
US-PATENT-APPL-SN-245063	c 33	N74-11049 *	US-PATENT-APPL-SN-259211	c 44	N84-14583 *	US-PATENT-APPL-SN-275118	c 35	N74-18088 *
US-PATENT-APPL-SN-245279	c 25	N74-30502 *	US-PATENT-APPL-SN-259212	c 35	N84-22931 *	US-PATENT-APPL-SN-275909	c 33	N85-21491 *
US-PATENT-APPL-SN-245571	c 07	N84-22560 *	US-PATENT-APPL-SN-259487	c 33	N70-36847 *	US-PATENT-APPL-SN-276076	c 72	N84-16959 * #
US-PATENT-APPL-SN-245941	c 33	N71-17897 *	US-PATENT-APPL-SN-260087	c 21	N71-21688 *	US-PATENT-APPL-SN-276599	c 74	N81-19896 *
US-PATENT-APPL-SN-246032	c 32	N91-14523 *	US-PATENT-APPL-SN-260093	c 25	N74-26948 *	US-PATENT-APPL-SN-276748	c 33	N83-34189 *
US-PATENT-APPL-SN-246056	c 38	N74-15395 *	US-PATENT-APPL-SN-260241	c 74	N74-21304 *	US-PATENT-APPL-SN-276749	c 74	N84-23247 *
US-PATENT-APPL-SN-246294	c 27	N82-29454 *	US-PATENT-APPL-SN-260762	c 72	N91-14813 *	US-PATENT-APPL-SN-277404	c 05	N70-39922 *
US-PATENT-APPL-SN-246295	c 27	N82-29452 *	US-PATENT-APPL-SN-261183	c 09	N74-30597 *	US-PATENT-APPL-SN-277436	c 37	N74-25968 *
US-PATENT-APPL-SN-246594	c 37	N90-23742 *	US-PATENT-APPL-SN-261912	c 14	N70-34818 *	US-PATENT-APPL-SN-277596	c 74	N89-24153 * #
US-PATENT-APPL-SN-246595	c 35	N89-12842 * #	US-PATENT-APPL-SN-261917	c 09	N70-40272 *	US-PATENT-APPL-SN-277833	c 03	N70-41580 *
US-PATENT-APPL-SN-246772	c 44	N83-10494 *	US-PATENT-APPL-SN-261918	c 28	N70-41447 *	US-PATENT-APPL-SN-277904	c 28	N74-27425 *
US-PATENT-APPL-SN-246773	c 35	N83-29650 *	US-PATENT-APPL-SN-262430	c 35	N74-18323 *	US-PATENT-APPL-SN-277961	c 33	N70-36617 *
US-PATENT-APPL-SN-246774	c 34	N83-31993 *	US-PATENT-APPL-SN-262596	c 14	N71-28958 *	US-PATENT-APPL-SN-278137	c 51	N89-25557 * #
US-PATENT-APPL-SN-246777	c 45	N83-25217 *	US-PATENT-APPL-SN-262596	c 62	N76-31946 *	US-PATENT-APPL-SN-278790	c 15	N70-34664 *
US-PATENT-APPL-SN-246778	c 36	N83-35350 *	US-PATENT-APPL-SN-263230	c 33	N74-20860 *	US-PATENT-APPL-SN-2792	c 14	N70-33386 *
US-PATENT-APPL-SN-247055	c 37	N74-11300 *	US-PATENT-APPL-SN-263498	c 34	N74-27859 *	US-PATENT-APPL-SN-279624	c 24	N89-23623 * #
US-PATENT-APPL-SN-247090	c 37	N74-18128 *	US-PATENT-APPL-SN-263755	c 02	N70-33286 *	US-PATENT-APPL-SN-279625	c 31	N90-23586 *
US-PATENT-APPL-SN-247136	c 14	N71-30265 *	US-PATENT-APPL-SN-263755	c 02	N70-34858 *	US-PATENT-APPL-SN-279630	c 60	N90-25583 *
US-PATENT-APPL-SN-247419	c 14	N70-36907 *	US-PATENT-APPL-SN-263815	c 09	N74-17955 *	US-PATENT-APPL-SN-279646	c 08	N71-21042 *
US-PATENT-APPL-SN-247423	c 01	N71-13410 *	US-PATENT-APPL-SN-263828	c 34	N83-19015 *	US-PATENT-APPL-SN-279676	c 33	N89-29679 * #
US-PATENT-APPL-SN-247434	c 25	N76-29379 *	US-PATENT-APPL-SN-263829	c 05	N84-12154 *	US-PATENT-APPL-SN-279677	c 31	N89-23738 * #
US-PATENT-APPL-SN-247434	c 25	N76-27383 *	US-PATENT-APPL-SN-263830	c 44	N83-28573 *	US-PATENT-APPL-SN-279677	c 31	N90-26168 *
US-PATENT-APPL-SN-247481	c 05	N73-26071 *	US-PATENT-APPL-SN-263957	c 52	N83-25346 *	US-PATENT-APPL-SN-280029	c 35	N74-15126 *
US-PATENT-APPL-SN-248009	c 23	N89-13496 * #	US-PATENT-APPL-SN-264107	c 35	N90-22023 *	US-PATENT-APPL-SN-280031	c 26	N73-26752 *
US-PATENT-APPL-SN-248010	c 37	N89-12866 * #	US-PATENT-APPL-SN-264268	c 31	N78-17238 *	US-PATENT-APPL-SN-280032	c 35	N74-15093 *
US-PATENT-APPL-SN-248018	c 24	N89-14258 * #	US-PATENT-APPL-SN-264378	c 24	N83-10117 *	US-PATENT-APPL-SN-280151	c 27	N83-36220 *
US-PATENT-APPL-SN-248018	c 24	N90-25197 *	US-PATENT-APPL-SN-264378	c 70	N84-28565 *	US-PATENT-APPL-SN-280152	c 54	N86-22112 *
US-PATENT-APPL-SN-248019	c 76	N89-14120 * #	US-PATENT-APPL-SN-264380	c 44	N83-14692 *	US-PATENT-APPL-SN-280153	c 51	N83-17045 *
US-PATENT-APPL-SN-248020	c 35	N90-23706 *	US-PATENT-APPL-SN-264381	c 52	N84-28388 *	US-PATENT-APPL-SN-280154	c 33	N83-10345 *
US-PATENT-APPL-SN-248469	c 14	N73-32318 *	US-PATENT-APPL-SN-264381	c 52	N84-28389 *	US-PATENT-APPL-SN-280155	c 24	N84-11214 *
US-PATENT-APPL-SN-248471	c 31	N74-27902 *	US-PATENT-APPL-SN-264728	c 30	N70-40016 *	US-PATENT-APPL-SN-280305	c 34	N74-23039 *
US-PATENT-APPL-SN-248744	c 05	N83-19737 *	US-PATENT-APPL-SN-264729	c 33	N70-34540 *	US-PATENT-APPL-SN-280362	c 14	N71-28935 *
US-PATENT-APPL-SN-248745	c 18	N83-29303 *	US-PATENT-APPL-SN-264731	c 09	N70-41655 *	US-PATENT-APPL-SN-280390	c 37	N74-15128 *
US-PATENT-APPL-SN-248746	c 37	N83-36482 *	US-PATENT-APPL-SN-264735	c 28	N73-32265 *	US-PATENT-APPL-SN-280580	c 12	N71-21089 *
US-PATENT-APPL-SN-248761	c 15	N74-27360 *	US-PATENT-APPL-SN-264736	c 28	N70-36802 *	US-PATENT-APPL-SN-280776	c 14	N70-40273 *
US-PATENT-APPL-SN-248985	c 03	N71-29129 *	US-PATENT-APPL-SN-264993	c 05	N91-14345 *	US-PATENT-APPL-SN-280777	c 08	N70-41961 *
US-PATENT-APPL-SN-249304	c 35	N84-14491 *	US-PATENT-APPL-SN-265773	c 31	N72-22874 *	US-PATENT-APPL-SN-281069	c 14	N70-35394 *
US-PATENT-APPL-SN-249537	c 14	N71-10797 *	US-PATENT-APPL-SN-266045	c 27	N91-15403 *	US-PATENT-APPL-SN-28175	c 21	N70-33279 *
US-PATENT-APPL-SN-249539	c 28	N71-15658 *	US-PATENT-APPL-SN-266107	c 11	N71-15925 *	US-PATENT-APPL-SN-281875	c 25	N74-18551 *
US-PATENT-APPL-SN-249540	c 15	N70-34861 *	US-PATENT-APPL-SN-266253	c 04	N84-22546 *	US-PATENT-APPL-SN-281876	c 52	N74-20726 *
US-PATENT-APPL-SN-249542	c 28	N70-41576 *	US-PATENT-APPL-SN-266254	c 24	N83-13172 *	US-PATENT-APPL-SN-281877	c 35	N74-15146 *
US-PATENT-APPL-SN-250195	c 34	N90-23700 *	US-PATENT-APPL-SN-266255	c 44	N83-27344 *	US-PATENT-APPL-SN-281908	c 25	N75-12086 *
US-PATENT-APPL-SN-250196	c 37	N89-12868 * #	US-PATENT-APPL-SN-266256	c 24	N83-13171 *	US-PATENT-APPL-SN-282129	c 24	N83-25789 *
US-PATENT-APPL-SN-250451	c 08	N70-34787 *	US-PATENT-APPL-SN-266687	c 32	N84-22820 *	US-PATENT-APPL-S		

US-PATENT-APPL-SN-282817	c 15	N70-40156 *	US-PATENT-APPL-SN-29917	c 37	N74-13179 *	US-PATENT-APPL-SN-317391	c 15	N71-15968 *
US-PATENT-APPL-SN-282818	c 14	N71-14996 *	US-PATENT-APPL-SN-29979	c 09	N75-15662 *	US-PATENT-APPL-SN-317567	c 36	N75-15029 *
US-PATENT-APPL-SN-283106	c 62	N91-14769 *	US-PATENT-APPL-SN-300113	c 33	N70-33344 *	US-PATENT-APPL-SN-317658	c 36	N84-16542 *
US-PATENT-APPL-SN-283431	c 36	N91-17360 #	US-PATENT-APPL-SN-300712	c 15	N70-35407 *	US-PATENT-APPL-SN-317776	c 51	N91-13860 *
US-PATENT-APPL-SN-283502	c 37	N74-21060 *	US-PATENT-APPL-SN-300957	c 33	N71-29053 *	US-PATENT-APPL-SN-317931	c 51	N90-18852 #
US-PATENT-APPL-SN-283673	c 33	N91-14551 *	US-PATENT-APPL-SN-301039	c 37	N74-27903 *	US-PATENT-APPL-SN-317977	c 25	N83-36118 *
US-PATENT-APPL-SN-284245	c 33	N74-17928 *	US-PATENT-APPL-SN-301075	c 25	N83-29324 *	US-PATENT-APPL-SN-318151	c 75	N74-30156 *
US-PATENT-APPL-SN-284265	c 14	N70-34799 *	US-PATENT-APPL-SN-301077	c 33	N84-14421 *	US-PATENT-APPL-SN-318152	c 52	N74-20728 *
US-PATENT-APPL-SN-284266	c 15	N71-16077 *	US-PATENT-APPL-SN-301078	c 08	N85-19985 *	US-PATENT-APPL-SN-318217	c 35	N91-13694 *
US-PATENT-APPL-SN-284286	c 44	N84-28203 *	US-PATENT-APPL-SN-301417	c 71	N74-21014 *	US-PATENT-APPL-SN-318357	c 35	N74-21019 *
US-PATENT-APPL-SN-284287	c 32	N84-27951 *	US-PATENT-APPL-SN-301418	c 52	N76-29894 *	US-PATENT-APPL-SN-318358	c 27	N74-27037 *
US-PATENT-APPL-SN-284288	c 33	N83-36356 *	US-PATENT-APPL-SN-301419	c 34	N76-17317 *	US-PATENT-APPL-SN-318443	c 03	N70-34667 *
US-PATENT-APPL-SN-284289	c 34	N84-22903 *	US-PATENT-APPL-SN-301683	c 07	N71-15907 *	US-PATENT-APPL-SN-318848	c 35	N77-14408 *
US-PATENT-APPL-SN-284290	c 33	N83-34191 *	US-PATENT-APPL-SN-301925	c 27	N89-25334 #	US-PATENT-APPL-SN-318855	c 10	N72-17172 *
US-PATENT-APPL-SN-284314	c 33	N84-16454 *	US-PATENT-APPL-SN-302681	c 37	N75-12326 *	US-PATENT-APPL-SN-319150	c 33	N75-19519 *
US-PATENT-APPL-SN-285705	c 37	N74-21056 *	US-PATENT-APPL-SN-302749	c 14	N70-40201 *	US-PATENT-APPL-SN-319410	c 37	N74-20063 *
US-PATENT-APPL-SN-286620	c 15	N71-30028 *	US-PATENT-APPL-SN-302913	c 76	N79-16678 *	US-PATENT-APPL-SN-319892	c 07	N71-10609 *
US-PATENT-APPL-SN-286624	c 44	N79-19447 *	US-PATENT-APPL-SN-303670	c 37	N82-11469 #	US-PATENT-APPL-SN-319893	c 14	N70-41647 *
US-PATENT-APPL-SN-287149	c 35	N74-32878 *	US-PATENT-APPL-SN-303671	c 31	N83-31896 *	US-PATENT-APPL-SN-319894	c 03	N71-11053 *
US-PATENT-APPL-SN-287150	c 37	N74-21065 *	US-PATENT-APPL-SN-303672	c 71	N83-32516 *	US-PATENT-APPL-SN-319905	c 14	N71-10781 *
US-PATENT-APPL-SN-288267	c 27	N83-31854 *	US-PATENT-APPL-SN-304147	c 27	N90-23541 *	US-PATENT-APPL-SN-320233	c 33	N71-15625 *
US-PATENT-APPL-SN-288267	c 27	N84-22745 *	US-PATENT-APPL-SN-304148	c 31	N89-29577 #	US-PATENT-APPL-SN-320595	c 26	N70-40015 *
US-PATENT-APPL-SN-288267	c 27	N85-21347 *	US-PATENT-APPL-SN-304155	c 37	N91-14607 *	US-PATENT-APPL-SN-320621	c 27	N83-34040 *
US-PATENT-APPL-SN-288847	c 33	N74-27862 *	US-PATENT-APPL-SN-304430	c 52	N74-27864 *	US-PATENT-APPL-SN-321179	c 27	N74-21156 *
US-PATENT-APPL-SN-288856	c 33	N74-20859 *	US-PATENT-APPL-SN-304438	c 32	N70-41579 *	US-PATENT-APPL-SN-321180	c 05	N76-29217 *
US-PATENT-APPL-SN-288857	c 14	N73-33361 *	US-PATENT-APPL-SN-304705	c 32	N74-20810 *	US-PATENT-APPL-SN-321656	c 14	N70-41807 *
US-PATENT-APPL-SN-289017	c 37	N74-27905 *	US-PATENT-APPL-SN-304749	c 11	N71-16028 *	US-PATENT-APPL-SN-322312	c 25	N84-22709 *
US-PATENT-APPL-SN-289018	c 08	N74-30421 *	US-PATENT-APPL-SN-304748	c 37	N74-21063 *	US-PATENT-APPL-SN-322314	c 35	N84-12443 *
US-PATENT-APPL-SN-289033	c 15	N73-32358 *	US-PATENT-APPL-SN-305012	c 35	N74-15094 *	US-PATENT-APPL-SN-322317	c 46	N85-21846 *
US-PATENT-APPL-SN-289033	c 37	N74-21055 *	US-PATENT-APPL-SN-305013	c 14	N73-13435 #	US-PATENT-APPL-SN-322321	c 37	N85-21651 *
US-PATENT-APPL-SN-289048	c 37	N74-21057 *	US-PATENT-APPL-SN-305020	c 21	N70-34295 *	US-PATENT-APPL-SN-322545	c 14	N71-10774 *
US-PATENT-APPL-SN-289049	c 19	N74-15089 *	US-PATENT-APPL-SN-305638	c 34	N74-23066 *	US-PATENT-APPL-SN-322565	c 37	N75-27376 *
US-PATENT-APPL-SN-289050	c 20	N74-32919 *	US-PATENT-APPL-SN-305639	c 37	N74-27904 *	US-PATENT-APPL-SN-322997	c 37	N75-15992 *
US-PATENT-APPL-SN-290021	c 37	N74-23064 *	US-PATENT-APPL-SN-306652	c 33	N74-32712 *	US-PATENT-APPL-SN-322997	c 24	N79-25143 *
US-PATENT-APPL-SN-290022	c 09	N73-12214 #	US-PATENT-APPL-SN-307269	c 24	N71-10560 *	US-PATENT-APPL-SN-322998	c 35	N74-32877 *
US-PATENT-APPL-SN-290030	c 33	N74-12887 *	US-PATENT-APPL-SN-307270	c 10	N71-16030 *	US-PATENT-APPL-SN-323182	c 03	N70-41864 *
US-PATENT-APPL-SN-290043	c 18	N75-27040 *	US-PATENT-APPL-SN-307271	c 09	N71-22999 *	US-PATENT-APPL-SN-323236	c 24	N90-21822 *
US-PATENT-APPL-SN-290067	c 28	N70-39931 *	US-PATENT-APPL-SN-307714	c 03	N76-32140 *	US-PATENT-APPL-SN-323748	c 61	N90-16411 #
US-PATENT-APPL-SN-290868	c 31	N70-34966 *	US-PATENT-APPL-SN-307727	c 32	N74-20813 *	US-PATENT-APPL-SN-324029	c 32	N74-27612 *
US-PATENT-APPL-SN-290870	c 15	N70-36996 *	US-PATENT-APPL-SN-307728	c 34	N74-27861 *	US-PATENT-APPL-SN-32496	c 15	N70-37925 *
US-PATENT-APPL-SN-290873	c 10	N71-16058 *	US-PATENT-APPL-SN-307729	c 31	N74-27900 *	US-PATENT-APPL-SN-325082	c 35	N83-29652 *
US-PATENT-APPL-SN-290915	c 32	N74-11000 *	US-PATENT-APPL-SN-308007	c 44	N83-34448 *	US-PATENT-APPL-SN-325083	c 33	N84-16456 *
US-PATENT-APPL-SN-291131	c 33	N83-31953 *	US-PATENT-APPL-SN-308009	c 33	N83-36355 *	US-PATENT-APPL-SN-325784	c 24	N76-14204 *
US-PATENT-APPL-SN-291132	c 33	N83-35227 *	US-PATENT-APPL-SN-308201	c 27	N83-28240 *	US-PATENT-APPL-SN-325885	c 35	N82-25484 #
US-PATENT-APPL-SN-291645	c 60	N85-21992 *	US-PATENT-APPL-SN-308201	c 27	N85-21349 *	US-PATENT-APPL-SN-325886	c 33	N83-34190 *
US-PATENT-APPL-SN-291845	c 52	N74-27566 *	US-PATENT-APPL-SN-308203	c 34	N84-12406 *	US-PATENT-APPL-SN-325931	c 37	N82-26674 #
US-PATENT-APPL-SN-292037	c 33	N90-23635 *	US-PATENT-APPL-SN-308204	c 44	N83-28574 *	US-PATENT-APPL-SN-325932	c 33	N84-16455 *
US-PATENT-APPL-SN-292047	c 37	N89-29750 #	US-PATENT-APPL-SN-308918	c 27	N71-15634 *	US-PATENT-APPL-SN-325933	c 76	N83-20789 *
US-PATENT-APPL-SN-292049	c 23	N91-17141 *	US-PATENT-APPL-SN-309291	c 37	N88-23982 *	US-PATENT-APPL-SN-326198	c 35	N75-12272 *
US-PATENT-APPL-SN-292121	c 18	N90-11798 #	US-PATENT-APPL-SN-309292	c 37	N84-28085 *	US-PATENT-APPL-SN-326298	c 14	N71-22765 *
US-PATENT-APPL-SN-292123	c 18	N90-20126 *	US-PATENT-APPL-SN-309293	c 25	N83-13187 *	US-PATENT-APPL-SN-326299	c 26	N71-17818 *
US-PATENT-APPL-SN-292124	c 62	N89-29976 #	US-PATENT-APPL-SN-309354	c 11	N71-15926 *	US-PATENT-APPL-SN-326326	c 35	N74-32879 *
US-PATENT-APPL-SN-292130	c 32	N89-25360 #	US-PATENT-APPL-SN-310034	c 33	N74-30524 *	US-PATENT-APPL-SN-326327	c 44	N74-27519 *
US-PATENT-APPL-SN-292131	c 18	N91-14374 *	US-PATENT-APPL-SN-310193	c 32	N74-27682 *	US-PATENT-APPL-SN-326364	c 51	N75-13502 *
US-PATENT-APPL-SN-292141	c 76	N89-30076 #	US-PATENT-APPL-SN-310506	c 10	N71-16042 *	US-PATENT-APPL-SN-326664	c 11	N72-25287 *
US-PATENT-APPL-SN-292146	c 37	N90-23751 *	US-PATENT-APPL-SN-310507	c 07	N71-11298 *	US-PATENT-APPL-SN-326665	c 14	N72-22444 *
US-PATENT-APPL-SN-292340	c 52	N79-21750 *	US-PATENT-APPL-SN-310615	c 37	N74-27901 *	US-PATENT-APPL-SN-326756	c 71	N91-14808 *
US-PATENT-APPL-SN-292382	c 27	N74-17283 *	US-PATENT-APPL-SN-310616	c 35	N74-21017 *	US-PATENT-APPL-SN-326757	c 24	N90-23493 *
US-PATENT-APPL-SN-292477	c 15	N73-12495 #	US-PATENT-APPL-SN-310624	c 33	N74-17929 *	US-PATENT-APPL-SN-326757	c 24	N91-17145 *
US-PATENT-APPL-SN-292596	c 10	N71-29135 *	US-PATENT-APPL-SN-310714	c 33	N82-11360 #	US-PATENT-APPL-SN-326766	c 35	N90-22024 *
US-PATENT-APPL-SN-292681	c 33	N74-10194 *	US-PATENT-APPL-SN-311175	c 52	N74-22771 *	US-PATENT-APPL-SN-326820	c 35	N91-17350 *
US-PATENT-APPL-SN-292682	c 14	N73-32319 *	US-PATENT-APPL-SN-311234	c 35	N74-23040 *	US-PATENT-APPL-SN-326863	c 37	N91-17387 *
US-PATENT-APPL-SN-292685	c 32	N74-20864 *	US-PATENT-APPL-SN-311387	c 23	N71-30027 *	US-PATENT-APPL-SN-327163	c 03	N71-20895 *
US-PATENT-APPL-SN-292686	c 20	N74-31269 *	US-PATENT-APPL-SN-311551	c 23	N91-14418 *	US-PATENT-APPL-SN-327565	c 02	N70-36825 *
US-PATENT-APPL-SN-292698	c 09	N73-32109 *	US-PATENT-APPL-SN-312269	c 28	N71-14043 *	US-PATENT-APPL-SN-327921	c 54	N75-13531 *
US-PATENT-APPL-SN-293412	c 27	N83-34039 *	US-PATENT-APPL-SN-31242	c 28	N70-33374 *	US-PATENT-APPL-SN-327969	c 35	N75-13213 *
US-PATENT-APPL-SN-293414	c 37	N84-16560 *	US-PATENT-APPL-SN-312443	c 10	N71-21473 *	US-PATENT-APPL-SN-328140	c 18	N71-21651 *
US-PATENT-APPL-SN-293417	c 37	N82-26673 #	US-PATENT-APPL-SN-313132	c 28	N70-34175 *	US-PATENT-APPL-SN-328392	c 27	N90-23545 *
US-PATENT-APPL-SN-293418	c 26	N83-31795 *	US-PATENT-APPL-SN-313135	c 15	N70-35087 *	US-PATENT-APPL-SN-328392	c 23	N91-14419 *
US-PATENT-APPL-SN-293419	c 33	N82-24427 #	US-PATENT-APPL-SN-313136	c 09	N71-12540 *	US-PATENT-APPL-SN-328760	c 31	N83-35177 *
US-PATENT-APPL-SN-293725	c 89	N74-30886 *	US-PATENT-APPL-SN-313381	c 35	N74-15091 *	US-PATENT-APPL-SN-328792	c 35	N75-12273 *
US-PATENT-APPL-SN-293726	c 37	N74-21055 *	US-PATENT-APPL-SN-313839	c 37	N90-21390 *	US-PATENT-APPL-SN-329237	c 33	N74-34638 *
US-PATENT-APPL-SN-293727	c 33	N74-14956 *	US-PATENT-APPL-SN-314074	c 15	N71-16079 *	US-PATENT-APPL-SN-329243	c 28	N74-33209 *
US-PATENT-APPL-SN-293739	c 35	N74-28097 *	US-PATENT-APPL-SN-314570	c 10	N71-28960 *	US-PATENT-APPL-SN-329331	c 15	N71-15906 *
US-PATENT-APPL-SN-294727	c 73	N77-18891 *	US-PATENT-APPL-SN-314572	c 14	N71-15992 *	US-PATENT-APPL-SN-329595	c 05	N70-41329 *
US-PATENT-APPL-SN-294738	c 73	N78-28913 *	US-PATENT-APPL-SN-314656	c 51	N77-25769 *	US-PATENT-APPL-SN-329958	c 33	N74-22885 *
US-PATENT-APPL-SN-295855	c 23	N71-17802 *	US-PATENT-APPL-SN-314702	c 71	N84-16940 *	US-PATENT-APPL-SN-330209	c 15	N70-41646 *
US-PATENT-APPL-SN-296137	c 74	N84-28590 *	US-PATENT-APPL-SN-314928	c 32	N84-34651 *	US-PATENT-APPL-SN-330210	c 14	N71-21090 *
US-PATENT-APPL-SN-296622	c 44	N76-31666 *	US-PATENT-APPL-SN-314929	c 71	N83-32515 *	US-PATENT-APPL-SN-331323	c 07	N71-16088 *
US-PATENT-APPL-SN-296679	c 26	N71-18064 *	US-PATENT-APPL-SN-315048	c 34	N74-27730 *	US-PATENT-APPL-SN-331324	c 05	N70-35152 *
US-PATENT-APPL-SN-297127	c 33	N74-27705 *	US-PATENT-APPL-SN-315069	c 33	N74-20862 *	US-PATENT-APPL-SN-33159	c 10	N72-11256 *
US-PATENT-APPL-SN-297128	c 32	N74-26654 *	US-PATENT-APPL-SN-315070	c 60	N76-23850 *	US-PATENT-APPL-SN-331759	c 07	N76-18117 *
US-PATENT-APPL-SN-297436	c 33	N79-11314 *	US-PATENT-APPL-SN-315096	c 12	N70-40124 *	US-PATENT-APPL-SN-331760	c 35	N74-27860 *
US-PATENT-APPL-SN-297486	c 35	N83-24828 *	US-PATENT-APPL-SN-3151	c 05	N72-27102 *	US-PATENT-APPL-SN-332123	c 27	N80-32514 *
US-PATENT-APPL-SN-297488	c 37	N84-16561 *	US-PATENT-APPL-SN-315278	c 51	N83-28849 *	US-PATENT-APPL-SN-332313	c 21	N71-10678 *
US-PATENT-APPL-SN-297524	c 33	N84-14424 *	US-PATENT-APPL-SN-315583	c 35	N84-33769 *	US-PATENT-APPL-SN-332339	c 07	N71-11284 *
US-PATENT-APPL-SN-297524	c 33	N84-22886 *	US-PATENT-APPL-SN-315584	c 23	N84-16255 *	US-PATENT-APPL-SN-332677	c 33	N90-21951 *
US-PATENT-APPL-SN-298150	c 25	N90-23517 *	US-PATENT-APPL-SN-315587	c 25	N83-31743 *	US-PATENT-APPL-SN-333535	c 74	N83-36898 *
US-PATENT-APPL-SN-298156	c 37	N75-13261 *	US-PATENT-APPL-SN-315588	c 05	N84-22551 *	US-PATENT-APPL-SN-333537	c 44	N83-32176 *
US-PATENT-APPL-SN-298156	c 26	N75-19408 *	US-PATENT-APPL-SN-316477	c 18	N71-10772 *	US-PATENT-APPL-SN-333766	c 31	N71-15663 *
US-PATENT-APPL-SN-298157	c 33	N74-21850 *	US-PATENT-APPL-SN-316618	c 07	N74-15453 *	US-PATENT-APPL-SN-333770	c 21	N71-15583 *
US-PATENT-APPL-SN-298799	c 14	N71-15962 *	US-PATENT-APPL-SN-31702	c 16	N73-16536 *	US-PATENT-APPL-SN-333912	c 32	N74-19790 *
US-PATENT-APPL-SN-298800	c 14	N70-34705 *	US-PATENT-APPL-SN-31703	c 09	N72-21244 *	US-PATENT-APPL-SN-33398	c 14	N70-3558

US-PATENT-APPL-SN-334678	c 11	N71-10777 *	US-PATENT-APPL-SN-354126	c 37	N82-22496 *	US-PATENT-APPL-SN-367606	c 75	N75-13625 *
US-PATENT-APPL-SN-335036	c 45	N84-12654 *	US-PATENT-APPL-SN-354182	c 10	N71-20841 *	US-PATENT-APPL-SN-367606	c 75	N76-17951 *
US-PATENT-APPL-SN-335201	c 33	N74-17927 *	US-PATENT-APPL-SN-354406	c 52	N76-14757 *	US-PATENT-APPL-SN-368123	c 09	N71-10618 *
US-PATENT-APPL-SN-335355	c 06	N72-17093 *	US-PATENT-APPL-SN-354407	c 33	N74-22865 *	US-PATENT-APPL-SN-368187	c 54	N84-11758 *
US-PATENT-APPL-SN-335441	c 14	N71-23268 *	US-PATENT-APPL-SN-354408	c 35	N75-19614 *	US-PATENT-APPL-SN-368188	c 33	N84-33663 *
US-PATENT-APPL-SN-336103	c 16	N71-15550 *	US-PATENT-APPL-SN-354611	c 25	N74-26947 *	US-PATENT-APPL-SN-368189	c 18	N84-22605 *
US-PATENT-APPL-SN-336319	c 44	N74-33379 *	US-PATENT-APPL-SN-354612	c 35	N75-30504 *	US-PATENT-APPL-SN-368189	c 23	N72-22673 *
US-PATENT-APPL-SN-336320	c 15	N71-15966 *	US-PATENT-APPL-SN-355126	c 17	N71-15644 *	US-PATENT-APPL-SN-36926	c 28	N72-23810 *
US-PATENT-APPL-SN-336607	c 10	N71-15910 *	US-PATENT-APPL-SN-355129	c 14	N70-41957 *	US-PATENT-APPL-SN-369334	c 21	N71-22880 *
US-PATENT-APPL-SN-336608	c 32	N71-17645 *	US-PATENT-APPL-SN-355130	c 15	N70-40354 *	US-PATENT-APPL-SN-369336	c 09	N71-10659 *
US-PATENT-APPL-SN-337487	c 33	N74-26977 *	US-PATENT-APPL-SN-356488	c 08	N71-19544 *	US-PATENT-APPL-SN-369337	c 15	N70-41811 *
US-PATENT-APPL-SN-337767	c 31	N90-23587 *	US-PATENT-APPL-SN-356544	c 24	N75-33181 *	US-PATENT-APPL-SN-369338	c 08	N71-28925 *
US-PATENT-APPL-SN-337816	c 35	N75-15931 *	US-PATENT-APPL-SN-356555	c 37	N75-19685 *	US-PATENT-APPL-SN-369403	c 35	N91-14588 *
US-PATENT-APPL-SN-338386	c 15	N84-16231 *	US-PATENT-APPL-SN-356664	c 31	N75-12161 *	US-PATENT-APPL-SN-369490	c 19	N91-14412 *
US-PATENT-APPL-SN-338484	c 32	N74-20811 *	US-PATENT-APPL-SN-356692	c 15	N70-41371 *	US-PATENT-APPL-SN-369640	c 32	N70-41370 *
US-PATENT-APPL-SN-339040	c 31	N70-41373 *	US-PATENT-APPL-SN-357126	c 35	N74-34857 *	US-PATENT-APPL-SN-3696	c 10	N72-20224 *
US-PATENT-APPL-SN-339806	c 07	N74-27490 *	US-PATENT-APPL-SN-357312	c 27	N76-16229 *	US-PATENT-APPL-SN-370134	c 30	N70-40353 *
US-PATENT-APPL-SN-339821	c 17	N70-33288 *	US-PATENT-APPL-SN-357334	c 03	N71-12258 *	US-PATENT-APPL-SN-370135	c 11	N70-41677 *
US-PATENT-APPL-SN-339825	c 28	N71-15660 *	US-PATENT-APPL-SN-357336	c 03	N71-12259 *	US-PATENT-APPL-SN-370255	c 33	N75-18477 *
US-PATENT-APPL-SN-340113	c 16	N70-41578 *	US-PATENT-APPL-SN-357337	c 15	N71-10782 *	US-PATENT-APPL-SN-370271	c 32	N75-24981 *
US-PATENT-APPL-SN-340791	c 35	N74-26945 *	US-PATENT-APPL-SN-357340	c 23	N71-15673 *	US-PATENT-APPL-SN-37050	c 33	N74-26732 *
US-PATENT-APPL-SN-340862	c 33	N77-26387 *	US-PATENT-APPL-SN-357757	c 14	N89-28547 *	US-PATENT-APPL-SN-370582	c 18	N76-14186 *
US-PATENT-APPL-SN-340863	c 25	N76-27383 *	US-PATENT-APPL-SN-357759	c 62	N90-10608 *	US-PATENT-APPL-SN-370872	c 37	N74-32918 *
US-PATENT-APPL-SN-340864	c 31	N74-21059 *	US-PATENT-APPL-SN-357938	c 45	N91-14662 *	US-PATENT-APPL-SN-370989	c 23	N71-29049 *
US-PATENT-APPL-SN-340871	c 44	N74-19870 *	US-PATENT-APPL-SN-358027	c 35	N91-14587 *	US-PATENT-APPL-SN-370999	c 74	N78-15879 *
US-PATENT-APPL-SN-341406	c 71	N83-35781 *	US-PATENT-APPL-SN-358028	c 37	N89-28842 *	US-PATENT-APPL-SN-371322	c 44	N76-14600 *
US-PATENT-APPL-SN-341467	c 15	N70-39924 *	US-PATENT-APPL-SN-358088	c 35	N84-33767 *	US-PATENT-APPL-SN-371351	c 76	N84-35113 *
US-PATENT-APPL-SN-341621	c 54	N74-20725 *	US-PATENT-APPL-SN-358089	c 71	N84-23233 *	US-PATENT-APPL-SN-371352	c 52	N84-11744 *
US-PATENT-APPL-SN-341662	c 08	N74-10942 *	US-PATENT-APPL-SN-358127	c 05	N71-12335 *	US-PATENT-APPL-SN-371856	c 15	N70-42033 *
US-PATENT-APPL-SN-3417	c 15	N72-22490 *	US-PATENT-APPL-SN-358398	c 36	N84-22944 *	US-PATENT-APPL-SN-371857	c 07	N70-41680 *
US-PATENT-APPL-SN-3418	c 15	N72-20446 *	US-PATENT-APPL-SN-359039	c 32	N74-30523 *	US-PATENT-APPL-SN-372148	c 35	N74-26949 *
US-PATENT-APPL-SN-3418	c 15	N73-19457 *	US-PATENT-APPL-SN-359156	c 14	N75-24794 *	US-PATENT-APPL-SN-372149	c 37	N75-15050 *
US-PATENT-APPL-SN-342572	c 02	N71-16087 *	US-PATENT-APPL-SN-359157	c 35	N74-18090 *	US-PATENT-APPL-SN-372127	c 35	N84-28019 *
US-PATENT-APPL-SN-342574	c 03	N71-20904 *	US-PATENT-APPL-SN-359382	c 32	N85-34327 *	US-PATENT-APPL-SN-372438	c 30	N71-17788 *
US-PATENT-APPL-SN-342828	c 74	N85-29749 *	US-PATENT-APPL-SN-359388	c 44	N83-32177 *	US-PATENT-APPL-SN-372648	c 27	N71-16348 *
US-PATENT-APPL-SN-342857	c 72	N84-28575 *	US-PATENT-APPL-SN-359459	c 36	N89-28817 *	US-PATENT-APPL-SN-372727	c 31	N70-36845 *
US-PATENT-APPL-SN-342871	c 27	N84-33589 *	US-PATENT-APPL-SN-359460	c 36	N89-28816 *	US-PATENT-APPL-SN-372730	c 28	N71-28850 *
US-PATENT-APPL-SN-343308	c 19	N74-29410 *	US-PATENT-APPL-SN-359532	c 15	N71-28959 *	US-PATENT-APPL-SN-373587	c 33	N74-32711 *
US-PATENT-APPL-SN-343425	c 11	N70-35383 *	US-PATENT-APPL-SN-359626	c 35	N84-28018 *	US-PATENT-APPL-SN-373588	c 33	N75-19515 *
US-PATENT-APPL-SN-343426	c 07	N71-20814 *	US-PATENT-APPL-SN-359627	c 35	N82-26631 *	US-PATENT-APPL-SN-373591	c 31	N71-15692 *
US-PATENT-APPL-SN-343607	c 18	N74-27397 *	US-PATENT-APPL-SN-359627	c 35	N85-29214 *	US-PATENT-APPL-SN-373770	c 35	N84-34705 *
US-PATENT-APPL-SN-343652	c 33	N91-14537 *	US-PATENT-APPL-SN-359801	c 74	N89-29191 *	US-PATENT-APPL-SN-373771	c 35	N84-22934 *
US-PATENT-APPL-SN-343656	c 76	N91-14872 *	US-PATENT-APPL-SN-359957	c 07	N74-32418 *	US-PATENT-APPL-SN-373839	c 33	N84-22887 *
US-PATENT-APPL-SN-343760	c 07	N71-28979 *	US-PATENT-APPL-SN-359958	c 37	N74-26976 *	US-PATENT-APPL-SN-374421	c 27	N76-24405 *
US-PATENT-APPL-SN-344410	c 07	N74-33218 *	US-PATENT-APPL-SN-360180	c 17	N71-16026 *	US-PATENT-APPL-SN-374422	c 32	N75-24982 *
US-PATENT-APPL-SN-344793	c 03	N71-11058 *	US-PATENT-APPL-SN-360182	c 31	N70-36654 *	US-PATENT-APPL-SN-374423	c 36	N75-31427 *
US-PATENT-APPL-SN-344877	c 24	N90-15148 *	US-PATENT-APPL-SN-360878	c 03	N71-11051 *	US-PATENT-APPL-SN-374424	c 74	N75-12732 *
US-PATENT-APPL-SN-345372	c 33	N74-22814 *	US-PATENT-APPL-SN-361200	c 18	N89-28556 *	US-PATENT-APPL-SN-374441	c 35	N75-19616 *
US-PATENT-APPL-SN-346356	c 14	N70-41676 *	US-PATENT-APPL-SN-361215	c 27	N84-14323 *	US-PATENT-APPL-SN-374583	c 33	N74-29556 *
US-PATENT-APPL-SN-346361	c 37	N74-21064 *	US-PATENT-APPL-SN-361216	c 35	N84-28016 *	US-PATENT-APPL-SN-374810	c 27	N80-32514 *
US-PATENT-APPL-SN-346372	c 35	N75-12270 *	US-PATENT-APPL-SN-361217	c 71	N85-22104 *	US-PATENT-APPL-SN-375401	c 17	N71-16025 *
US-PATENT-APPL-SN-346483	c 37	N74-32921 *	US-PATENT-APPL-SN-361479	c 14	N89-28546 *	US-PATENT-APPL-SN-375405	c 31	N71-15675 *
US-PATENT-APPL-SN-346483	c 37	N76-15461 *	US-PATENT-APPL-SN-361531	c 35	N89-28795 *	US-PATENT-APPL-SN-375620	c 43	N85-21723 *
US-PATENT-APPL-SN-347101	c 09	N70-41675 *	US-PATENT-APPL-SN-361666	c 33	N75-30428 *	US-PATENT-APPL-SN-375674	c 28	N70-41582 *
US-PATENT-APPL-SN-347626	c 15	N70-40204 *	US-PATENT-APPL-SN-361711	c 24	N82-26387 *	US-PATENT-APPL-SN-375680	c 10	N71-28739 *
US-PATENT-APPL-SN-347952	c 37	N75-13265 *	US-PATENT-APPL-SN-361711	c 24	N84-16262 *	US-PATENT-APPL-SN-375682	c 31	N70-41588 *
US-PATENT-APPL-SN-347953	c 05	N75-24716 *	US-PATENT-APPL-SN-361906	c 33	N74-20861 *	US-PATENT-APPL-SN-375684	c 44	N85-21769 *
US-PATENT-APPL-SN-347960	c 03	N70-39930 *	US-PATENT-APPL-SN-361907	c 35	N74-27865 *	US-PATENT-APPL-SN-375784	c 24	N85-21266 *
US-PATENT-APPL-SN-348422	c 27	N76-15311 *	US-PATENT-APPL-SN-362145	c 32	N75-26194 *	US-PATENT-APPL-SN-375784	c 24	N85-35233 *
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US-PATENT-APPL-SN-393451	c 02	N70-42016 *	US-PATENT-APPL-SN-406715	c 35	N75-15014 *	US-PATENT-APPL-SN-422098	c 15	N71-22797 *
US-PATENT-APPL-SN-393456	c 33	N83-16633 *	US-PATENT-APPL-SN-406820	c 74	N86-32266 *	US-PATENT-APPL-SN-422099	c 14	N71-22964 *
US-PATENT-APPL-SN-393461	c 31	N71-17691 *	US-PATENT-APPL-SN-407240	c 27	N83-34041 *	US-PATENT-APPL-SN-422726	c 71	N90-17408 *
US-PATENT-APPL-SN-393464	c 23	N71-21821 *	US-PATENT-APPL-SN-407240	c 27	N85-20124 *	US-PATENT-APPL-SN-422864	c 05	N69-21925 *
US-PATENT-APPL-SN-393523	c 12	N75-24774 *	US-PATENT-APPL-SN-407323	c 32	N75-21485 *	US-PATENT-APPL-SN-422865	c 31	N70-41631 *
US-PATENT-APPL-SN-393524	c 60	N76-21914 *	US-PATENT-APPL-SN-407595	c 28	N70-41992 *	US-PATENT-APPL-SN-422867	c 15	N70-40662 *
US-PATENT-APPL-SN-393525	c 31	N74-32917 *	US-PATENT-APPL-SN-407599	c 14	N71-21091 *	US-PATENT-APPL-SN-422868	c 15	N71-10617 *
US-PATENT-APPL-SN-393526	c 77	N75-20139 *	US-PATENT-APPL-SN-407603	c 05	N71-11199 *	US-PATENT-APPL-SN-422869	c 14	N71-10779 *
US-PATENT-APPL-SN-393527	c 15	N75-13007 *	US-PATENT-APPL-SN-408435	c 15	N71-28937 *	US-PATENT-APPL-SN-423016	c 36	N85-21631 *
US-PATENT-APPL-SN-393528	c 36	N75-19654 *	US-PATENT-APPL-SN-408438	c 07	N71-22750 *	US-PATENT-APPL-SN-423089	c 37	N90-27114 *
US-PATENT-APPL-SN-393581	c 54	N84-23113 *	US-PATENT-APPL-SN-408442	c 10	N71-23662 *	US-PATENT-APPL-SN-423412	c 08	N71-22897 *
US-PATENT-APPL-SN-393582	c 37	N85-21649 *	US-PATENT-APPL-SN-408575	c 35	N83-32026 *	US-PATENT-APPL-SN-424013	c 34	N76-27517 *
US-PATENT-APPL-SN-393583	c 27	N83-29392 *	US-PATENT-APPL-SN-409126	c 18	N71-21068 *	US-PATENT-APPL-SN-424038	c 24	N75-30260 *
US-PATENT-APPL-SN-393584	c 37	N85-30334 *	US-PATENT-APPL-SN-409678	c 09	N84-27749 *	US-PATENT-APPL-SN-424153	c 15	N71-21234 *
US-PATENT-APPL-SN-393585	c 37	N82-31690 *	US-PATENT-APPL-SN-409679	c 33	N82-33634 *	US-PATENT-APPL-SN-424156	c 02	N71-23007 *
US-PATENT-APPL-SN-393586	c 54	N84-28484 *	US-PATENT-APPL-SN-409679	c 33	N84-22884 *	US-PATENT-APPL-SN-424157	c 28	N70-41275 *
US-PATENT-APPL-SN-393588	c 25	N84-16276 *	US-PATENT-APPL-SN-409680	c 35	N85-20294 *	US-PATENT-APPL-SN-425096	c 05	N71-23080 *
US-PATENT-APPL-SN-39414								

US-PATENT-APPL-SN-425204	c 32	N85-29117 *	US-PATENT-APPL-SN-440917	c 37	N76-18459 *	US-PATENT-APPL-SN-457992	c 35	N85-29212 *
US-PATENT-APPL-SN-425205	c 35	N85-21595 *	US-PATENT-APPL-SN-441279	c 35	N75-29382 *	US-PATENT-APPL-SN-458065	c 37	N91-13731 *
US-PATENT-APPL-SN-425362	c 15	N71-10658 *	US-PATENT-APPL-SN-441672	c 37	N90-15444 *	US-PATENT-APPL-SN-458258	c 35	N91-13683 *
US-PATENT-APPL-SN-425363	c 09	N71-20658 *	US-PATENT-APPL-SN-441673	c 37	N90-16272 *	US-PATENT-APPL-SN-458274	c 37	N90-15445 *
US-PATENT-APPL-SN-425364	c 33	N71-15623 *	US-PATENT-APPL-SN-441896	c 76	N90-20896 *	US-PATENT-APPL-SN-458280	c 60	N90-27268 *
US-PATENT-APPL-SN-425365	c 32	N71-21045 *	US-PATENT-APPL-SN-441897	c 35	N84-33768 *	US-PATENT-APPL-SN-458467	c 76	N90-17454 *
US-PATENT-APPL-SN-425972	c 03	N71-23006 *	US-PATENT-APPL-SN-441899	c 27	N84-14322 *	US-PATENT-APPL-SN-458476	c 18	N91-13483 *
US-PATENT-APPL-SN-426155	c 33	N75-15874 *	US-PATENT-APPL-SN-441936	c 14	N69-39975 *	US-PATENT-APPL-SN-458484	c 44	N76-14595 *
US-PATENT-APPL-SN-426345	c 25	N90-15161 *	US-PATENT-APPL-SN-442558	c 15	N71-10799 *	US-PATENT-APPL-SN-459029	c 37	N90-27110 *
US-PATENT-APPL-SN-426405	c 25	N75-26043 *	US-PATENT-APPL-SN-442815	c 76	N87-23286 *	US-PATENT-APPL-SN-459138	c 14	N71-10773 *
US-PATENT-APPL-SN-426455	c 28	N71-15661 *	US-PATENT-APPL-SN-442835	c 26	N71-29156 *	US-PATENT-APPL-SN-459407	c 14	N73-30391 *
US-PATENT-APPL-SN-426702	c 15	N70-42034 *	US-PATENT-APPL-SN-443289	c 27	N90-15262 *	US-PATENT-APPL-SN-459736	c 33	N75-26245 *
US-PATENT-APPL-SN-427395	c 54	N75-27760 *	US-PATENT-APPL-SN-443297	c 33	N91-14539 *	US-PATENT-APPL-SN-459842	c 35	N85-30281 *
US-PATENT-APPL-SN-427775	c 27	N76-22376 *	US-PATENT-APPL-SN-443414	c 27	N90-16925 *	US-PATENT-APPL-SN-460509	c 37	N84-33807 *
US-PATENT-APPL-SN-427990	c 06	N71-23527 *	US-PATENT-APPL-SN-443523	c 20	N90-15130 *	US-PATENT-APPL-SN-460733	c 37	N83-20154 *
US-PATENT-APPL-SN-428444	c 44	N76-18642 *	US-PATENT-APPL-SN-443539	c 32	N90-16975 *	US-PATENT-APPL-SN-460876	c 09	N69-21470 *
US-PATENT-APPL-SN-428444	c 44	N76-29704 *	US-PATENT-APPL-SN-444087	c 02	N71-11041 *	US-PATENT-APPL-SN-460877	c 33	N71-23085 *
US-PATENT-APPL-SN-428882	c 31	N70-41948 *	US-PATENT-APPL-SN-444124	c 52	N84-23095 *	US-PATENT-APPL-SN-461073	c 33	N75-26246 *
US-PATENT-APPL-SN-428887	c 33	N71-29051 *	US-PATENT-APPL-SN-444125	c 20	N83-17588 *	US-PATENT-APPL-SN-461477	c 37	N75-19686 *
US-PATENT-APPL-SN-428890	c 02	N70-41630 *	US-PATENT-APPL-SN-444149	c 47	N84-28292 *	US-PATENT-APPL-SN-461724	c 31	N85-21404 *
US-PATENT-APPL-SN-428992	c 34	N77-18382 *	US-PATENT-APPL-SN-444150	c 35	N84-22933 *	US-PATENT-APPL-SN-461765	c 17	N71-23046 *
US-PATENT-APPL-SN-428993	c 45	N75-27585 *	US-PATENT-APPL-SN-444248	c 52	N90-16391 *	US-PATENT-APPL-SN-461788	c 27	N85-21349 *
US-PATENT-APPL-SN-428994	c 32	N75-21486 *	US-PATENT-APPL-SN-445178	c 37	N76-15461 *	US-PATENT-APPL-SN-462341	c 44	N76-31666 *
US-PATENT-APPL-SN-428994	c 32	N76-16249 *	US-PATENT-APPL-SN-445292	c 11	N71-23030 *	US-PATENT-APPL-SN-462424	c 24	N77-19171 *
US-PATENT-APPL-SN-428995	c 51	N75-25503 *	US-PATENT-APPL-SN-445398	c 74	N78-15880 *	US-PATENT-APPL-SN-462497	c 25	N85-21279 *
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US-PATENT-APPL-SN-429516	c 05	N90-15094 *	US-PATENT-APPL-SN-446131	c 14	N71-22992 *	US-PATENT-APPL-SN-462762	c 12	N69-21466 *
US-PATENT-APPL-SN-429734	c 04	N91-14321 *	US-PATENT-APPL-SN-446560	c 12	N76-15189 *	US-PATENT-APPL-SN-462763	c 14	N71-22991 *
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US-PATENT-APPL-SN-430192	c 18	N71-27170 *	US-PATENT-APPL-SN-446568	c 37	N76-23570 *	US-PATENT-APPL-SN-463720	c 62	N90-27384 *
US-PATENT-APPL-SN-430226	c 18	N71-23658 *	US-PATENT-APPL-SN-446569	c 77	N75-20140 *	US-PATENT-APPL-SN-463925	c 74	N76-30053 *
US-PATENT-APPL-SN-430470	c 27	N90-26955 *	US-PATENT-APPL-SN-447124	c 35	N75-30503 *	US-PATENT-APPL-SN-464720	c 32	N76-16249 *
US-PATENT-APPL-SN-430496	c 26	N75-29236 *	US-PATENT-APPL-SN-447371	c 27	N84-22746 *	US-PATENT-APPL-SN-464721	c 37	N75-26372 *
US-PATENT-APPL-SN-430748	c 76	N79-21910 *	US-PATENT-APPL-SN-447927	c 11	N71-10776 *	US-PATENT-APPL-SN-464722	c 35	N76-22509 *
US-PATENT-APPL-SN-430776	c 03	N70-41954 *	US-PATENT-APPL-SN-447928	c 15	N71-10577 *	US-PATENT-APPL-SN-464723	c 33	N75-30429 *
US-PATENT-APPL-SN-430777	c 18	N71-24184 *	US-PATENT-APPL-SN-447930	c 14	N69-39896 *	US-PATENT-APPL-SN-464878	c 10	N71-22986 *
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US-PATENT-APPL-SN-431420	c 37	N85-29282 *	US-PATENT-APPL-SN-448323	c 18	N76-17185 *	US-PATENT-APPL-SN-465363	c 52	N84-28389 *
US-PATENT-APPL-SN-431448	c 37	N84-22957 *	US-PATENT-APPL-SN-448325	c 33	N75-26244 *	US-PATENT-APPL-SN-465364	c 44	N85-20530 *
US-PATENT-APPL-SN-431538	c 18	N91-13482 *	US-PATENT-APPL-SN-448365	c 10	N71-26414 *	US-PATENT-APPL-SN-465365	c 43	N86-19711 *
US-PATENT-APPL-SN-431886	c 18	N84-27787 *	US-PATENT-APPL-SN-448881	c 32	N85-29118 *	US-PATENT-APPL-SN-465366	c 27	N85-20126 *
US-PATENT-APPL-SN-432025	c 15	N71-21531 *	US-PATENT-APPL-SN-448898	c 15	N70-41310 *	US-PATENT-APPL-SN-465367	c 27	N84-22748 *
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US-PATENT-APPL-SN-432027	c 21	N70-41930 *	US-PATENT-APPL-SN-449153	c 54	N75-27761 *	US-PATENT-APPL-SN-465370	c 52	N83-29991 *
US-PATENT-APPL-SN-432028	c 15	N71-22723 *	US-PATENT-APPL-SN-449210	c 27	N90-26956 *	US-PATENT-APPL-SN-466390	c 28	N71-20330 *
US-PATENT-APPL-SN-432030	c 12	N71-20896 *	US-PATENT-APPL-SN-449901	c 28	N70-41967 *	US-PATENT-APPL-SN-466868	c 22	N71-23599 *
US-PATENT-APPL-SN-432032	c 15	N69-24322 *	US-PATENT-APPL-SN-449902	c 14	N70-41681 *	US-PATENT-APPL-SN-466873	c 17	N71-20743 *
US-PATENT-APPL-SN-432057	c 33	N84-14423 *	US-PATENT-APPL-SN-450166	c 33	N84-27975 *	US-PATENT-APPL-SN-466875	c 08	N71-22707 *
US-PATENT-APPL-SN-432433	c 15	N71-22705 *	US-PATENT-APPL-SN-450188	c 33	N91-15489 *	US-PATENT-APPL-SN-467820	c 28	N71-26779 *
US-PATENT-APPL-SN-433196	c 44	N84-23019 *	US-PATENT-APPL-SN-450319	c 33	N84-33661 *	US-PATENT-APPL-SN-468614	c 60	N77-14751 *
US-PATENT-APPL-SN-43327	c 15	N72-26371 *	US-PATENT-APPL-SN-450500	c 37	N76-18455 *	US-PATENT-APPL-SN-468614	c 60	N77-32731 *
US-PATENT-APPL-SN-433598	c 27	N84-22747 *	US-PATENT-APPL-SN-450502	c 37	N76-18456 *	US-PATENT-APPL-SN-468614	c 60	N78-10709 *
US-PATENT-APPL-SN-433804	c 16	N90-16781 *	US-PATENT-APPL-SN-450504	c 23	N77-17161 *	US-PATENT-APPL-SN-468647	c 21	N71-10771 *
US-PATENT-APPL-SN-433812	c 27	N90-15260 *	US-PATENT-APPL-SN-450505	c 37	N75-31446 *	US-PATENT-APPL-SN-468655	c 15	N69-21471 *
US-PATENT-APPL-SN-433821	c 09	N71-16089 *	US-PATENT-APPL-SN-450503	c 33	N75-31330 *	US-PATENT-APPL-SN-469011	c 11	N69-21540 *
US-PATENT-APPL-SN-433863	c 24	N91-17145 *	US-PATENT-APPL-SN-451596	c 17	N71-29137 *	US-PATENT-APPL-SN-469012	c 25	N71-20747 *
US-PATENT-APPL-SN-433881	c 37	N90-17138 *	US-PATENT-APPL-SN-451896	c 26	N86-32551 *	US-PATENT-APPL-SN-469013	c 14	N69-27423 *
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US-PATENT-APPL-SN-434085	c 33	N85-29145 *	US-PATENT-APPL-SN-452466	c 03	N84-33394 *	US-PATENT-APPL-SN-469866	c 27	N84-22749 *
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US-PATENT-APPL-SN-434143	c 15	N71-15871 *	US-PATENT-APPL-SN-452767	c 05	N75-25915 *	US-PATENT-APPL-SN-470114	c 25	N83-24572 *
US-PATENT-APPL-SN-434148	c 31	N71-24750 *	US-PATENT-APPL-SN-452768	c 52	N76-30793 *	US-PATENT-APPL-SN-470428	c 33	N76-16332 *
US-PATENT-APPL-SN-434672	c 34	N84-14461 *	US-PATENT-APPL-SN-452769	c 44	N76-16612 *	US-PATENT-APPL-SN-470429	c 33	N75-31329 *
US-PATENT-APPL-SN-434674	c 34	N83-35307 *	US-PATENT-APPL-SN-452770	c 33	N75-31332 *	US-PATENT-APPL-SN-470480	c 20	N90-26073 *
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US-PATENT-APPL-SN-435433	c 14	N71-30026 *	US-PATENT-APPL-SN-452945	c 18	N69-39979 *	US-PATENT-APPL-SN-47062	c 15	N72-17451 *
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US-PATENT-APPL-SN-436313	c 54	N77-32721 *	US-PATENT-APPL-SN-453227	c 31	N71-10582 *	US-PATENT-APPL-SN-470663	c 37	N90-26341 *
US-PATENT-APPL-SN-436315	c 26	N75-19408 *	US-PATENT-APPL-SN-453229	c 17	N71-23828 *	US-PATENT-APPL-SN-470665	c 43	N91-14642 *
US-PATENT-APPL-SN-436316	c 20	N76-14191 *	US-PATENT-APPL-SN-453231	c 23	N71-15467 *	US-PATENT-APPL-SN-470902	c 06	N71-28808 *
US-PATENT-APPL-SN-436317	c 37	N76-24575 *	US-PATENT-APPL-SN-453232	c 15	N71-21311 *	US-PATENT-APPL-SN-471154	c 09	N73-28084 *
US-PATENT-APPL-SN-437556	c 27	N76-16230 *	US-PATENT-APPL-SN-453232	c 18	N75-19329 *	US-PATENT-APPL-SN-47120	c 31	N70-33242 *
US-PATENT-APPL-SN-437611	c 09	N71-22796 *	US-PATENT-APPL-SN-453241	c 33	N75-29318 *	US-PATENT-APPL-SN-47121	c 09	N70-39915 *
US-PATENT-APPL-SN-437912	c 33	N85-29142 *	US-PATENT-APPL-SN-455163	c 32	N75-26195 *	US-PATENT-APPL-SN-47122	c 14	N70-34813 *
US-PATENT-APPL-SN-437917	c 60	N85-33701 *	US-PATENT-APPL-SN-455165	c 36	N75-30524 *	US-PATENT-APPL-SN-47123	c 15	N70-34817 *
US-PATENT-APPL-SN-438135	c 09	N71-23027 *	US-PATENT-APPL-SN-45519	c 14	N72-25410 *	US-PATENT-APPL-SN-472066	c 31	N70-42075 *
US-PATENT-APPL-SN-438147	c 75	N76-14931 *	US-PATENT-APPL-SN-455352	c 33	N71-20834 *	US-PATENT-APPL-SN-472372	c 07	N71-20791 *
US-PATENT-APPL-SN-438446	c 74	N86-20126 *	US-PATENT-APPL-SN-455477	c 08	N71-19687 *	US-PATENT-APPL-SN-472643	c 33	N79-21265 *
US-PATENT-APPL-SN-438797	c 14	N71-10500 *	US-PATENT-APPL-SN-45549	c 27	N76-16228 *	US-PATENT-APPL-SN-472747	c 31	N71-16081 *
US-PATENT-APPL-SN-43883	c 18	N73-30532 *	US-PATENT-APPL-SN-456460	c 26	N84-27855 *	US-PATENT-APPL-SN-472775	c 35	N75-33369 *
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US-PATENT-APPL-SN-439490	c 23	N69-24332 *	US-PATENT-APPL-SN-457295	c 20	N75-24837 *	US-PATENT-APPL-SN-473242	c 34	N90-26292 *
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US-PATENT-APPL-SN-473973	c 02	N77-10001 *	US-PATENT-APPL-SN-491058	c 09	N71-23443 *	US-PATENT-APPL-SN-506477	c 33	N85-29146 *
US-PATENT-APPL-SN-47440	c 07	N73-20174 *	US-PATENT-APPL-SN-491059	c 09	N71-23015 *	US-PATENT-APPL-SN-506636	c 74	N91-14001 *
US-PATENT-APPL-SN-47441	c 09	N70-34559 *	US-PATENT-APPL-SN-491113	c 35	N86-19581 *	US-PATENT-APPL-SN-506803	c 24	N79-25143 *
US-PATENT-APPL-SN-47443	c 09	N72-17152 *	US-PATENT-APPL-SN-491215	c 27	N84-22750 *	US-PATENT-APPL-SN-506804	c 35	N76-18402 *
US-PATENT-APPL-SN-474531	c 31	N71-23009 *	US-PATENT-APPL-SN-491416	c 35	N75-33368 *	US-PATENT-APPL-SN-506908	c 09	N71-18843 *
US-PATENT-APPL-SN-474744	c 35	N76-14431 *	US-PATENT-APPL-SN-491417	c 37	N76-19437 *	US-PATENT-APPL-SN-507254	c 14	N71-22990 *
US-PATENT-APPL-SN-474745	c 37	N76-14463 *	US-PATENT-APPL-SN-491418	c 31	N76-31365 *	US-PATENT-APPL-SN-507257	c 09	N71-19449 *
US-PATENT-APPL-SN-474815	c 33	N79-21264 *	US-PATENT-APPL-SN-491419	c 32	N76-15330 *	US-PATENT-APPL-SN-507553	c 34	N91-13657 *
US-PATENT-APPL-SN-475299	c 31	N71-17679 *	US-PATENT-APPL-SN-491845	c 28	N71-15659 *	US-PATENT-APPL-SN-507623	c 31	N85-29083 *
US-PATENT-APPL-SN-475336	c 54	N75-27758 *	US-PATENT-APPL-SN-492282	c 27	N85-20124 *	US-PATENT-APPL-SN-507624	c 76	N85-30922 *
US-PATENT-APPL-SN-475337	c 51	N76-29891 *	US-PATENT-APPL-SN-492344	c 05	N71-22896 *	US-PATENT-APPL-SN-507625	c 76	N86-20150 *
US-PATENT-APPL-SN-475338	c 35	N76-15431 *	US-PATENT-APPL-SN-492964	c 25	N85-21280 *	US-PATENT-APPL-SN-507626	c 34	N85-29179 *
US-PATENT-APPL-SN-476244	c 33	N84-22885 *	US-PATENT-APPL-SN-493179	c 23	N85-35227 *	US-PATENT-APPL-SN-508154	c 54	N90-27261 *
US-PATENT-APPL-SN-476759	c 03	N70-42073 *	US-PATENT-APPL-SN-493190	c 43	N91-13787 *	US-PATENT-APPL-SN-508169	c 18	N71-27397 *
US-PATENT-APPL-SN-476761	c 11	N71-10748 *	US-PATENT-APPL-SN-493359	c 20	N76-21275 *	US-PATENT-APPL-SN-508170	c 08	N71-22710 *
US-PATENT-APPL-SN-476763	c 09	N69-21313 *	US-PATENT-APPL-SN-493363	c 33	N76-21390 *	US-PATENT-APPL-SN-508316	c 27	N90-26954 *
US-PATENT-APPL-SN-477333	c 28	N70-41822 *	US-PATENT-APPL-SN-493529	c 51	N91-13857 *	US-PATENT-APPL-SN-508371	c 05	N85-21147 *
US-PATENT-APPL-SN-478129	c 25	N86-27431 *	US-PATENT-APPL-SN-493864	c 23	N90-20133 *	US-PATENT-APPL-SN-508372	c 43	N83-29783 *
US-PATENT-APPL-SN-478130	c 74	N85-23396 *	US-PATENT-APPL-SN-493864	c 23	N90-23475 *	US-PATENT-APPL-SN-508386	c 25	N90-26098 *
US-PATENT-APPL-SN-478131	c 26	N87-14482 *	US-PATENT-APPL-SN-493865	c 24	N86-19380 *	US-PATENT-APPL-SN-508601	c 15	N71-22878 *
US-PATENT-APPL-SN-478491	c 14	N69-21363 *	US-PATENT-APPL-SN-493866	c 71	N84-28568 *	US-PATENT-APPL-SN-508784	c 76	N76-25049 *
US-PATENT-APPL-SN-478800	c 37	N76-19436 *	US-PATENT-APPL-SN-493942	c 14	N71-17659 *	US-PATENT-APPL-SN-508873	c 14	N71-23240 *
US-PATENT-APPL-SN-478802	c 35	N75-29381 *	US-PATENT-APPL-SN-493943	c 15	N71-21529 *	US-PATENT-APPL-SN-509460	c 01	N71-13411 *
US-PATENT-APPL-SN-478803	c 31	N76-14284 *	US-PATENT-APPL-SN-494280	c 28	N71-23081 *	US-PATENT-APPL-SN-510136	c 18	N84-33450 *
US-PATENT-APPL-SN-479353	c 15	N71-23256 *	US-PATENT-APPL-SN-494282	c 15	N69-39735 *	US-PATENT-APPL-SN-510137	c 37	N85-34401 *
US-PATENT-APPL-SN-479357	c 36	N77-19416 *	US-PATENT-APPL-SN-494283	c 31	N71-24035 *	US-PATENT-APPL-SN-510150	c 10	N71-26103 *
US-PATENT-APPL-SN-479485	c 27	N90-26952 *	US-PATENT-APPL-SN-494287	c 03	N71-22974 *	US-PATENT-APPL-SN-510155	c 06	N71-11235 *
US-PATENT-APPL-SN-480210	c 11	N71-21474 *	US-PATENT-APPL-SN-494739	c 07	N71-26291 *	US-PATENT-APPL-SN-510474	c 15	N71-23810 *
US-PATENT-APPL-SN-480211	c 14	N71-26135 *	US-PATENT-APPL-SN-495021	c 44	N78-13526 *	US-PATENT-APPL-SN-510475	c 14	N71-23087 *
US-PATENT-APPL-SN-480385	c 74	N90-27487 *	US-PATENT-APPL-SN-495022	c 60	N77-12721 *	US-PATENT-APPL-SN-510677	c 44	N77-19571 *
US-PATENT-APPL-SN-480449	c 33	N90-27040 *	US-PATENT-APPL-SN-495380	c 37	N85-29285 *	US-PATENT-APPL-SN-511299	c 15	N71-22798 *
US-PATENT-APPL-SN-480985	c 18	N90-26860 *	US-PATENT-APPL-SN-495380	c 37	N87-22976 *	US-PATENT-APPL-SN-511334	c 36	N77-32478 *
US-PATENT-APPL-SN-481013	c 60	N91-13888 *	US-PATENT-APPL-SN-495381	c 24	N84-22695 *	US-PATENT-APPL-SN-511346	c 15	N77-10113 *
US-PATENT-APPL-SN-481020	c 36	N83-29681 *	US-PATENT-APPL-SN-495381	c 24	N85-21267 *	US-PATENT-APPL-SN-511362	c 33	N85-29147 *
US-PATENT-APPL-SN-481086	c 33	N84-33660 *	US-PATENT-APPL-SN-495969	c 44	N91-13863 *	US-PATENT-APPL-SN-511363	c 25	N88-23846 *
US-PATENT-APPL-SN-481106	c 09	N84-34448 *	US-PATENT-APPL-SN-496205	c 14	N71-22965 *	US-PATENT-APPL-SN-5114	c 06	N72-25150 *
US-PATENT-APPL-SN-481537	c 18	N90-26861 *	US-PATENT-APPL-SN-496779	c 05	N76-29217 *	US-PATENT-APPL-SN-511564	c 09	N69-39885 *
US-PATENT-APPL-SN-482104	c 27	N76-22377 *	US-PATENT-APPL-SN-498167	c 03	N71-10608 *	US-PATENT-APPL-SN-511567	c 05	N71-12336 *
US-PATENT-APPL-SN-482105	c 27	N76-23426 *	US-PATENT-APPL-SN-498168	c 28	N71-21822 *	US-PATENT-APPL-SN-511887	c 35	N76-15436 *
US-PATENT-APPL-SN-482307	c 15	N71-21060 *	US-PATENT-APPL-SN-499122	c 15	N71-24164 *	US-PATENT-APPL-SN-511894	c 03	N76-32140 *
US-PATENT-APPL-SN-482311	c 05	N71-22748 *	US-PATENT-APPL-SN-499126	c 23	N86-19276 *	US-PATENT-APPL-SN-512352	c 15	N70-33330 *
US-PATENT-APPL-SN-482313	c 11	N69-24321 *	US-PATENT-APPL-SN-500044	c 35	N85-21597 *	US-PATENT-APPL-SN-512509	c 26	N75-27125 *
US-PATENT-APPL-SN-482670	c 14	N71-21007 *	US-PATENT-APPL-SN-500046	c 31	N87-16918 *	US-PATENT-APPL-SN-512559	c 23	N71-22881 *
US-PATENT-APPL-SN-482952	c 09	N71-28926 *	US-PATENT-APPL-SN-500435	c 14	N71-21082 *	US-PATENT-APPL-SN-512561	c 16	N71-25914 *
US-PATENT-APPL-SN-482953	c 74	N76-18913 *	US-PATENT-APPL-SN-500446	c 10	N71-23029 *	US-PATENT-APPL-SN-512562	c 16	N71-24074 *
US-PATENT-APPL-SN-482967	c 34	N76-18364 *	US-PATENT-APPL-SN-500651	c 07	N85-35195 *	US-PATENT-APPL-SN-512795	c 27	N84-22745 *
US-PATENT-APPL-SN-483301	c 36	N77-26477 *	US-PATENT-APPL-SN-500979	c 32	N76-18295 *	US-PATENT-APPL-SN-512825	c 32	N76-15329 *
US-PATENT-APPL-SN-483817	c 27	N79-21190 *	US-PATENT-APPL-SN-500980	c 72	N76-15860 *	US-PATENT-APPL-SN-51317	c 14	N73-30389 *
US-PATENT-APPL-SN-483850	c 37	N76-14460 *	US-PATENT-APPL-SN-500981	c 35	N77-10492 *	US-PATENT-APPL-SN-513346	c 07	N79-14095 *
US-PATENT-APPL-SN-483851	c 35	N76-15435 *	US-PATENT-APPL-SN-500982	c 75	N76-17951 *	US-PATENT-APPL-SN-513389	c 25	N75-12087 *
US-PATENT-APPL-SN-483852	c 33	N75-30430 *	US-PATENT-APPL-SN-501011	c 33	N76-18345 *	US-PATENT-APPL-SN-513576	c 35	N76-29552 *
US-PATENT-APPL-SN-483857	c 44	N76-14601 *	US-PATENT-APPL-SN-501012	c 33	N76-14373 *	US-PATENT-APPL-SN-513611	c 24	N76-22309 *
US-PATENT-APPL-SN-483858	c 35	N76-18400 *	US-PATENT-APPL-SN-501060	c 60	N84-28491 *	US-PATENT-APPL-SN-513611	c 24	N80-33482 *
US-PATENT-APPL-SN-483885	c 04	N71-23185 *	US-PATENT-APPL-SN-501892	c 32	N90-27015 *	US-PATENT-APPL-SN-513612	c 05	N77-17029 *
US-PATENT-APPL-SN-483886	c 09	N71-22968 *	US-PATENT-APPL-SN-501893	c 34	N91-13668 *	US-PATENT-APPL-SN-513613	c 27	N78-15276 *
US-PATENT-APPL-SN-483891	c 14	N69-39982 *	US-PATENT-APPL-SN-501908	c 51	N90-27239 *	US-PATENT-APPL-SN-513690	c 37	N76-20480 *
US-PATENT-APPL-SN-484156	c 11	N71-21475 *	US-PATENT-APPL-SN-501909	c 34	N90-27072 *	US-PATENT-APPL-SN-514117	c 27	N86-19455 *
US-PATENT-APPL-SN-484208	c 35	N75-30502 *	US-PATENT-APPL-SN-501910	c 37	N91-14614 *	US-PATENT-APPL-SN-514407	c 18	N71-22894 *
US-PATENT-APPL-SN-484209	c 35	N76-18403 *	US-PATENT-APPL-SN-50206	c 07	N72-17109 *	US-PATENT-APPL-SN-514546	c 74	N76-20958 *
US-PATENT-APPL-SN-484485	c 01	N71-23497 *	US-PATENT-APPL-SN-50207	c 07	N72-20141 *	US-PATENT-APPL-SN-51473	c 02	N70-33266 *
US-PATENT-APPL-SN-484489	c 10	N71-15909 *	US-PATENT-APPL-SN-50208	c 14	N73-13418 *	US-PATENT-APPL-SN-51477	c 14	N72-25412 *
US-PATENT-APPL-SN-484490	c 24	N71-20518 *	US-PATENT-APPL-SN-502124	c 35	N76-16393 *	US-PATENT-APPL-SN-515484	c 14	N71-22993 *
US-PATENT-APPL-SN-484745	c 35	N85-20295 *	US-PATENT-APPL-SN-502135	c 35	N76-15433 *	US-PATENT-APPL-SN-516087	c 27	N85-20125 *
US-PATENT-APPL-SN-484855	c 09	N71-19480 *	US-PATENT-APPL-SN-502136	c 35	N75-27331 *	US-PATENT-APPL-SN-516150	c 05	N71-19440 *
US-PATENT-APPL-SN-485058	c 06	N71-23550 *	US-PATENT-APPL-SN-502137	c 37	N76-21554 *	US-PATENT-APPL-SN-516151	c 15	N70-41679 *
US-PATENT-APPL-SN-485656	c 28	N71-10574 *	US-PATENT-APPL-SN-502138	c 43	N77-10584 *	US-PATENT-APPL-SN-516152	c 14	N71-23225 *
US-PATENT-APPL-SN-485957	c 25	N71-21694 *	US-PATENT-APPL-SN-502693	c 15	N71-20739 *	US-PATENT-APPL-SN-516153	c 10	N71-28783 *
US-PATENT-APPL-SN-485958	c 15	N71-24047 *	US-PATENT-APPL-SN-502701	c 08	N71-23295 *	US-PATENT-APPL-SN-516154	c 09	N69-24330 *
US-PATENT-APPL-SN-485960	c 15	N70-42017 *	US-PATENT-APPL-SN-502709	c 31	N71-21881 *	US-PATENT-APPL-SN-516155	c 09	N71-23270 *
US-PATENT-APPL-SN-48621	c 20	N78-32179 *	US-PATENT-APPL-SN-502710	c 15	N71-23048 *	US-PATENT-APPL-SN-516158	c 09	N71-19479 *
US-PATENT-APPL-SN-486458	c 37	N90-26340 *	US-PATENT-APPL-SN-502729	c 31	N70-41871 *	US-PATENT-APPL-SN-516159	c 14	N70-41812 *
US-PATENT-APPL-SN-486470	c 44	N85-21768 *	US-PATENT-APPL-SN-502739	c 09	N71-23311 *	US-PATENT-APPL-SN-516160	c 33	N71-16277 *
US-PATENT-APPL-SN-486471	c 33	N85-21492 *	US-PATENT-APPL-SN-502740	c 14	N69-27485 *	US-PATENT-APPL-SN-516162	c 07	N71-28900 *
US-PATENT-APPL-SN-486573	c 10	N71-19469 *	US-PATENT-APPL-SN-502743	c 08	N71-19435 *	US-PATENT-APPL-SN-516217	c 27	N85-21350 *
US-PATENT-APPL-SN-486884	c 15	N73-32362 *	US-PATENT-APPL-SN-502746	c 03	N69-39898 *	US-PATENT-APPL-SN-516217	c 27	N85-21351 *
US-PATENT-APPL-SN-487156	c 44	N77-10636 *	US-PATENT-APPL-SN-502750	c 09	N71-19466 *	US-PATENT-APPL-SN-516217	c 25	N85-28982 *
US-PATENT-APPL-SN-487341	c 14	N71-19431 *	US-PATENT-APPL-SN-502753	c 07	N69-39978 *	US-PATENT-APPL-SN-516217	c 25	N85-30039 *
US-PATENT-APPL-SN-487342	c 09	N71-21583 *	US-PATENT-APPL-SN-502756	c 03	N71-23336 *	US-PATENT-APPL-SN-516217	c 25	N85-30039 *
US-PATENT-APPL-SN-487343	c 03	N69-39890 *	US-PATENT-APPL-SN-502820	c 27	N85-21347 *	US-PATENT-APPL-SN-516573	c 18	N90-26858 *
US-PATENT-APPL-SN-487344	c 15	N69-21472 *	US-PATENT-APPL-SN-50339	c 04	N72-33072 *	US-PATENT-APPL-SN-516793	c 16	N71-22895 *
US-PATENT-APPL-SN-487352	c 14	N71-18699 *	US-PATENT-APPL-SN-503408	c 74	N91-13999 *	US-PATENT-APPL-SN-516794	c 14	N70-42074 *
US-PATENT-APPL-SN-487852	c 23	N76-15268 *	US-PATENT-APPL-SN-503410	c 37	N91-14614 *	US-PATENT-APPL-SN-516856	c 18	N90-26859 *
US-PATENT-APPL-SN-487929	c 33	N74-20859 *	US-PATENT-APPL-SN-503486	c 44	N91-13802 *	US-PATENT-APPL-SN-517100	c 28	N70-33241 *
US-PATENT-APPL-SN-487934	c 15	N71-21530 *	US-PATENT-APPL-SN-503487	c 24	N90-26880 *	US-PATENT-APPL-SN-517114	c 32	N90-27016 *
US-PATENT-APPL-SN-487939	c 14	N71-23040 *	US-PATENT-APPL-SN-504225	c 35	N76-16392 *	US-PATENT-APPL-SN-517156	c 14	N71-23093 *
US-PATENT-APPL-SN-487940	c 10	N71-26434 *	US-PATENT-APPL-SN-504266	c 31	N71-21064 *	US-PATENT-APPL-SN-517157	c 15	N71-22722 *
US-PATENT-APPL-SN-488381	c 14	N73-32321 *	US-PATENT-APPL-SN-504345	c 33	N85-22877 *	US-PATENT-APPL-SN-517158	c 14	N71-23401 *
US-PATENT-APPL-SN-488578	c 76	N90-27517 *	US-PATENT-APPL-SN-505320	c 16	N71-18614 *	US-PATENT-APPL-SN-517159	c 15	N71-20740 *
US-PATENT-APPL-SN-488616	c 07	N76-18117 *	US-PATENT-APPL-SN-505321	c 10	N71-22962 *	US-PATENT-APPL-SN-517858	c 14	N71-21006 *
US-PATENT-APPL-SN-488745	c 26	N75-27127 *	US-PATENT-APPL-SN-505765	c 15	N71-23816 *	US-PATENT-APPL-SN-517869	c 15	N71-23050 *
US-PATENT-APPL-SN-489008	c 23	N75-30256 *	US-PATENT-APPL-SN-505819	c 33	N76-16331 *	US-PATENT-APPL-SN-517995	c 39	N76-31562 *
US-PATENT-APPL-SN-489009	c 33	N76-19339 *	US-PATENT-APPL-SN-505881	c 09	N76-24280 *	US-PATENT-APPL-SN-518487	c 05	N71-11190 *
US-PATENT-APPL-SN-489442	c 25	N69-39884 *	US-PATENT-APPL-SN-506135	c 06	N71-20905 *	US-PATENT-APPL-SN-518544	c 44	N76-24696 *
US-PATENT-APPL-SN-489675	c 05	N85-29947 *	US-PATENT-APPL-SN-506136	c 60	N91-13890 *	US-PATENT-APPL-SN-518545		

US-PATENT-APPL-SN-518685	c 35	N76-14429 *	US-PATENT-APPL-SN-533650	c 35	N75-27329 *	US-PATENT-APPL-SN-547072	c 15	N71-24043 *
US-PATENT-APPL-SN-519160	c 18	N71-20742 *	US-PATENT-APPL-SN-533659	c 14	N73-30390 *	US-PATENT-APPL-SN-547072	c 35	N78-32397 *
US-PATENT-APPL-SN-519161	c 05	N71-20718 *	US-PATENT-APPL-SN-533734	c 33	N77-10428 *	US-PATENT-APPL-SN-547175	c 36	N84-12968 *
US-PATENT-APPL-SN-519395	c 09	N69-24317 *	US-PATENT-APPL-SN-534265	c 32	N76-21365 *	US-PATENT-APPL-SN-547176	c 37	N85-29286 *
US-PATENT-APPL-SN-520838	c 08	N71-18595 *	US-PATENT-APPL-SN-534266	c 35	N76-24523 *	US-PATENT-APPL-SN-547643	c 33	N79-33392 *
US-PATENT-APPL-SN-520839	c 10	N71-19472 *	US-PATENT-APPL-SN-534295	c 15	N71-21076 *	US-PATENT-APPL-SN-547677	c 10	N71-20448 *
US-PATENT-APPL-SN-521006	c 34	N77-10463 *	US-PATENT-APPL-SN-534564	c 10	N71-22961 *	US-PATENT-APPL-SN-548468	c 37	N76-27567 *
US-PATENT-APPL-SN-521601	c 60	N76-14818 *	US-PATENT-APPL-SN-534901	c 14	N70-36807 *	US-PATENT-APPL-SN-548559	c 44	N76-29700 *
US-PATENT-APPL-SN-521602	c 37	N76-18454 *	US-PATENT-APPL-SN-534931	c 37	N80-14395 *	US-PATENT-APPL-SN-548582	c 39	N86-20841 *
US-PATENT-APPL-SN-521603	c 35	N75-29380 *	US-PATENT-APPL-SN-534966	c 15	N71-24042 *	US-PATENT-APPL-SN-548583	c 27	N85-34282 *
US-PATENT-APPL-SN-521620	c 09	N77-10071 *	US-PATENT-APPL-SN-534975	c 14	N71-24232 *	US-PATENT-APPL-SN-548584	c 24	N84-34571 *
US-PATENT-APPL-SN-521753	c 15	N70-41960 *	US-PATENT-APPL-SN-535169	c 54	N78-17678 *	US-PATENT-APPL-SN-548808	c 14	N71-23227 *
US-PATENT-APPL-SN-521754	c 07	N71-22984 *	US-PATENT-APPL-SN-535304	c 09	N71-28810 *	US-PATENT-APPL-SN-549418	c 36	N76-31512 *
US-PATENT-APPL-SN-521755	c 28	N71-28849 *	US-PATENT-APPL-SN-535304	c 37	N76-15457 *	US-PATENT-APPL-SN-549860	c 03	N71-19438 *
US-PATENT-APPL-SN-521816	c 35	N77-19385 *	US-PATENT-APPL-SN-536210	c 17	N71-24830 *	US-PATENT-APPL-SN-550088	c 07	N71-24612 *
US-PATENT-APPL-SN-521817	c 45	N76-21742 *	US-PATENT-APPL-SN-536216	c 10	N71-23315 *	US-PATENT-APPL-SN-550081	c 02	N87-16793 *
US-PATENT-APPL-SN-521994	c 17	N71-23365 *	US-PATENT-APPL-SN-536217	c 10	N71-23544 *	US-PATENT-APPL-SN-550775	c 32	N91-13595 *
US-PATENT-APPL-SN-521996	c 15	N69-27871 *	US-PATENT-APPL-SN-536353	c 33	N76-14371 *	US-PATENT-APPL-SN-551182	c 03	N71-23187 *
US-PATENT-APPL-SN-521998	c 07	N69-24323 *	US-PATENT-APPL-SN-536761	c 33	N76-19338 *	US-PATENT-APPL-SN-551184	c 37	N76-22541 *
US-PATENT-APPL-SN-521999	c 12	N71-20815 *	US-PATENT-APPL-SN-536762	c 37	N76-22540 *	US-PATENT-APPL-SN-551536	c 04	N86-27270 *
US-PATENT-APPL-SN-522109	c 07	N78-17056 *	US-PATENT-APPL-SN-536785	c 33	N76-31409 *	US-PATENT-APPL-SN-551694	c 31	N71-18611 *
US-PATENT-APPL-SN-522551	c 76	N76-20994 *	US-PATENT-APPL-SN-536786	c 44	N77-32581 *	US-PATENT-APPL-SN-551815	c 02	N71-11038 *
US-PATENT-APPL-SN-522552	c 35	N76-16390 *	US-PATENT-APPL-SN-537024	c 44	N76-27664 *	US-PATENT-APPL-SN-551846	c 03	N71-20492 *
US-PATENT-APPL-SN-522556	c 35	N76-15432 *	US-PATENT-APPL-SN-537480	c 45	N76-31714 *	US-PATENT-APPL-SN-551933	c 33	N71-14032 *
US-PATENT-APPL-SN-522629	c 23	N90-20133 *	US-PATENT-APPL-SN-537614	c 33	N86-20672 *	US-PATENT-APPL-SN-551961	c 15	N70-33382 *
US-PATENT-APPL-SN-522629	c 23	N90-23475 *	US-PATENT-APPL-SN-537615	c 28	N71-22983 *	US-PATENT-APPL-SN-552108	c 07	N79-14076 *
US-PATENT-APPL-SN-522628	c 08	N85-19985 *	US-PATENT-APPL-SN-537615	c 37	N85-33489 *	US-PATENT-APPL-SN-552344	c 09	N69-27463 *
US-PATENT-APPL-SN-522794	c 09	N71-23190 *	US-PATENT-APPL-SN-537616	c 26	N85-29005 *	US-PATENT-APPL-SN-552454	c 35	N76-24525 *
US-PATENT-APPL-SN-522795	c 20	N71-16281 *	US-PATENT-APPL-SN-537617	c 09	N71-22987 *	US-PATENT-APPL-SN-552670	c 35	N91-13686 *
US-PATENT-APPL-SN-522949	c 37	N91-13724 *	US-PATENT-APPL-SN-537775	c 37	N86-20789 *	US-PATENT-APPL-SN-553339	c 27	N86-20560 *
US-PATENT-APPL-SN-522971	c 54	N76-24900 *	US-PATENT-APPL-SN-537979	c 37	N77-11397 *	US-PATENT-APPL-SN-553339	c 27	N87-22845 *
US-PATENT-APPL-SN-523297	c 24	N85-21266 *	US-PATENT-APPL-SN-538047	c 37	N76-27568 *	US-PATENT-APPL-SN-55333	c 10	N73-16206 *
US-PATENT-APPL-SN-523297	c 24	N85-35233 *	US-PATENT-APPL-SN-538063	c 37	N86-19603 *	US-PATENT-APPL-SN-553687	c 44	N76-29704 *
US-PATENT-APPL-SN-523511	c 28	N71-20942 *	US-PATENT-APPL-SN-538166	c 15	N71-21177 *	US-PATENT-APPL-SN-553891	c 23	N71-16341 *
US-PATENT-APPL-SN-523559	c 74	N85-29750 *	US-PATENT-APPL-SN-538168	c 23	N71-16098 *	US-PATENT-APPL-SN-554277	c 07	N71-26579 *
US-PATENT-APPL-SN-523560	c 60	N86-21154 *	US-PATENT-APPL-SN-538863	c 54	N78-17680 *	US-PATENT-APPL-SN-554897	c 15	N71-22982 *
US-PATENT-APPL-SN-523632	c 33	N78-17293 *	US-PATENT-APPL-SN-538905	c 08	N71-18594 *	US-PATENT-APPL-SN-554899	c 15	N70-33382 *
US-PATENT-APPL-SN-523675	c 37	N90-27113 *	US-PATENT-APPL-SN-538907	c 33	N71-28903 *	US-PATENT-APPL-SN-554949	c 06	N71-20717 *
US-PATENT-APPL-SN-523692	c 61	N90-27341 *	US-PATENT-APPL-SN-538908	c 33	N71-22890 *	US-PATENT-APPL-SN-554950	c 17	N71-23248 *
US-PATENT-APPL-SN-523991	c 35	N86-20751 *	US-PATENT-APPL-SN-538911	c 33	N71-22792 *	US-PATENT-APPL-SN-554959	c 27	N79-21191 *
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US-PATENT-APPL-SN-524746	c 14	N73-28491 *	US-PATENT-APPL-SN-538982	c 33	N77-14333 *	US-PATENT-APPL-SN-555336	c 33	N76-27473 *
US-PATENT-APPL-SN-524959	c 76	N90-27518 *	US-PATENT-APPL-SN-538983	c 33	N76-18353 *	US-PATENT-APPL-SN-55534	c 11	N72-25288 *
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US-PATENT-APPL-SN-526448	c 44	N76-14602 *	US-PATENT-APPL-SN-539237	c 33	N71-16278 *	US-PATENT-APPL-SN-55536	c 14	N72-29464 *
US-PATENT-APPL-SN-526449	c 54	N76-14804 *	US-PATENT-APPL-SN-539255	c 18	N71-26153 *	US-PATENT-APPL-SN-55537	c 18	N72-25540 *
US-PATENT-APPL-SN-526450	c 35	N77-14409 *	US-PATENT-APPL-SN-539255	c 17	N72-28536 *	US-PATENT-APPL-SN-555641	c 51	N76-29891 *
US-PATENT-APPL-SN-526631	c 10	N71-19471 *	US-PATENT-APPL-SN-540014	c 15	N71-22799 *	US-PATENT-APPL-SN-555750	c 27	N79-12221 *
US-PATENT-APPL-SN-526664	c 07	N69-24334 *	US-PATENT-APPL-SN-540079	c 33	N79-12331 *	US-PATENT-APPL-SN-555864	c 26	N91-13527 *
US-PATENT-APPL-SN-526665	c 14	N69-24331 *	US-PATENT-APPL-SN-540976	c 32	N91-13598 *	US-PATENT-APPL-SN-555865	c 33	N91-13622 *
US-PATENT-APPL-SN-526739	c 37	N87-23970 *	US-PATENT-APPL-SN-541399	c 14	N71-20428 *	US-PATENT-APPL-SN-556481	c 74	N86-26190 *
US-PATENT-APPL-SN-526741	c 09	N84-12193 *	US-PATENT-APPL-SN-541526	c 33	N87-14594 *	US-PATENT-APPL-SN-556512	c 37	N86-25789 *
US-PATENT-APPL-SN-526750	c 71	N85-22105 *	US-PATENT-APPL-SN-542157	c 20	N76-21276 *	US-PATENT-APPL-SN-556513	c 33	N85-29143 *
US-PATENT-APPL-SN-526768	c 25	N85-35253 *	US-PATENT-APPL-SN-542192	c 26	N75-27126 *	US-PATENT-APPL-SN-556514	c 35	N86-25753 *
US-PATENT-APPL-SN-526770	c 35	N85-21598 *	US-PATENT-APPL-SN-542232	c 33	N86-19516 *	US-PATENT-APPL-SN-556784	c 09	N71-20447 *
US-PATENT-APPL-SN-527331	c 17	N73-28573 *	US-PATENT-APPL-SN-542557	c 44	N85-30474 *	US-PATENT-APPL-SN-556830	c 15	N71-26294 *
US-PATENT-APPL-SN-527462	c 35	N90-26304 *	US-PATENT-APPL-SN-542707	c 07	N72-25173 *	US-PATENT-APPL-SN-557016	c 15	N71-23086 *
US-PATENT-APPL-SN-527508	c 37	N90-26342 *	US-PATENT-APPL-SN-542713	c 23	N71-23976 *	US-PATENT-APPL-SN-557430	c 52	N77-14737 *
US-PATENT-APPL-SN-527509	c 74	N90-27488 *	US-PATENT-APPL-SN-54271	c 02	N73-19004 *	US-PATENT-APPL-SN-557448	c 45	N76-17656 *
US-PATENT-APPL-SN-527613	c 37	N86-19604 *	US-PATENT-APPL-SN-542754	c 34	N76-18374 *	US-PATENT-APPL-SN-557565	c 24	N77-27187 *
US-PATENT-APPL-SN-527727	c 02	N76-16014 *	US-PATENT-APPL-SN-543206	c 05	N71-23159 *	US-PATENT-APPL-SN-557584	c 09	N71-20851 *
US-PATENT-APPL-SN-527728	c 37	N76-18458 *	US-PATENT-APPL-SN-543774	c 06	N69-39733 *	US-PATENT-APPL-SN-557861	c 03	N71-24605 *
US-PATENT-APPL-SN-527790	c 33	N76-14372 *	US-PATENT-APPL-SN-543915	c 60	N90-26518 *	US-PATENT-APPL-SN-557868	c 14	N70-41682 *
US-PATENT-APPL-SN-527914	c 27	N86-21675 *	US-PATENT-APPL-SN-544293	c 32	N91-13594 *	US-PATENT-APPL-SN-557871	c 10	N71-21483 *
US-PATENT-APPL-SN-527918	c 09	N85-21178 *	US-PATENT-APPL-SN-544611	c 33	N76-15373 *	US-PATENT-APPL-SN-55806	c 06	N72-31140 *
US-PATENT-APPL-SN-528031	c 10	N69-39888 *	US-PATENT-APPL-SN-544895	c 07	N71-28809 *	US-PATENT-APPL-SN-558600	c 74	N77-10899 *
US-PATENT-APPL-SN-529427	c 54	N91-16566 *	US-PATENT-APPL-SN-544899	c 09	N71-20569 *	US-PATENT-APPL-SN-559055	c 33	N71-29046 *
US-PATENT-APPL-SN-529593	c 27	N71-21819 *	US-PATENT-APPL-SN-545008	c 89	N90-27595 *	US-PATENT-APPL-SN-559349	c 33	N71-24145 *
US-PATENT-APPL-SN-529594	c 15	N69-27483 *	US-PATENT-APPL-SN-545014	c 43	N90-26784 *	US-PATENT-APPL-SN-559350	c 33	N71-28892 *
US-PATENT-APPL-SN-529594	c 33	N71-29152 *	US-PATENT-APPL-SN-545015	c 37	N90-26339 *	US-PATENT-APPL-SN-559351	c 14	N69-39785 *
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US-PATENT-APPL-SN-529803	c 33	N86-20668 *	US-PATENT-APPL-SN-545019	c 60	N90-26519 *	US-PATENT-APPL-SN-559846	c 34	N79-13289 *
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US-PATENT-APPL-SN-530339	c 31	N86-19479 *	US-PATENT-APPL-SN-545177	c 74	N91-14000 *	US-PATENT-APPL-SN-559888	c 71	N85-29693 *
US-PATENT-APPL-SN-530958	c 09	N71-22985 *	US-PATENT-APPL-SN-545178	c 37	N91-13733 *	US-PATENT-APPL-SN-560035	c 24	N85-30027 *
US-PATENT-APPL-SN-531372	c 72	N90-27472 *	US-PATENT-APPL-SN-545220	c 89	N91-14096 *	US-PATENT-APPL-SN-560691	c 32	N91-13596 *
US-PATENT-APPL-SN-531373	c 74	N91-14002 *	US-PATENT-APPL-SN-545223	c 03	N71-11056 *	US-PATENT-APPL-SN-560717	c 27	N91-13559 *
US-PATENT-APPL-SN-531374	c 37	N91-13734 *	US-PATENT-APPL-SN-545224	c 15	N69-21362 *	US-PATENT-APPL-SN-560891	c 73	N78-19920 *
US-PATENT-APPL-SN-531375	c 26	N90-26940 *	US-PATENT-APPL-SN-545228	c 07	N69-39736 *	US-PATENT-APPL-SN-560908	c 31	N91-13581 *
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US-PATENT-APPL-SN-531565	c 36	N76-24553 *	US-PATENT-APPL-SN-545236	c 31	N90-26176 *	US-PATENT-APPL-SN-560967	c 15	N69-21922 *
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US-PATENT-APPL-SN-531575	c 32	N76-31372 *	US-PATENT-APPL-SN-545284	c 34	N76-27517 *	US-PATENT-APPL-SN-561020	c 44	N76-23675 *
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US-PATENT-APPL-S								

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US-PATENT-APPL-SN-562933	c 10	N71-24799 *		US-PATENT-APPL-SN-576521	c 09	N71-20864 *	US-PATENT-APPL-SN-590144	c 15	N71-15606 *
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US-PATENT-APPL-SN-563646	c 05	N71-23096 *		US-PATENT-APPL-SN-577546	c 31	N71-23008 *	US-PATENT-APPL-SN-590183	c 74	N79-13855 *
US-PATENT-APPL-SN-563648	c 15	N71-17803 *		US-PATENT-APPL-SN-577548	c 09	N69-27422 *	US-PATENT-APPL-SN-590921	c 71	N86-21276 *
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US-PATENT-APPL-SN-563890	c 35	N85-34373 *		US-PATENT-APPL-SN-577775	c 14	N71-17574 *	US-PATENT-APPL-SN-590975	c 44	N78-31525 *
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US-PATENT-APPL-SN-565289	c 38	N77-17495 *		US-PATENT-APPL-SN-578241	c 52	N76-29896 *	US-PATENT-APPL-SN-591014	c 28	N71-24736 *
US-PATENT-APPL-SN-565290	c 17	N76-22245 *		US-PATENT-APPL-SN-578387	c 06	N87-22678 *	US-PATENT-APPL-SN-591089	c 24	N85-21267 *
US-PATENT-APPL-SN-565481	c 09	N86-32447 *		US-PATENT-APPL-SN-578388	c 06	N86-27280 *	US-PATENT-APPL-SN-591568	c 74	N76-31998 *
US-PATENT-APPL-SN-566392	c 14	N71-23175 *		US-PATENT-APPL-SN-578390	c 44	N85-30475 *	US-PATENT-APPL-SN-591569	c 37	N77-12402 *
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US-PATENT-APPL-SN-566717	c 14	N71-24233 *		US-PATENT-APPL-SN-578925	c 23	N71-16355 *	US-PATENT-APPL-SN-593142	c 37	N77-17464 *
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US-PATENT-APPL-SN-567806	c 06	N71-22975 *		US-PATENT-APPL-SN-578931	c 23	N71-21882 *	US-PATENT-APPL-SN-593595	c 06	N71-24740 *
US-PATENT-APPL-SN-56791	c 10	N72-16172 *		US-PATENT-APPL-SN-578932	c 08	N71-12505 *	US-PATENT-APPL-SN-593604	c 11	N69-27466 *
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US-PATENT-APPL-SN-611414	c 46	N74-23069 *		US-PATENT-APPL-SN-632152	c 10	N71-24798 *	US-PATENT-APPL-SN-643897	c 73	N78-32848 *
US-PATENT-APPL-SN-612265	c 14	N72-22442 *		US-PATENT-APPL-SN-632154	c 09	N69-39984 *	US-PATENT-APPL-SN-643931	c 31	N72-25842 *
US-PATENT-APPL-SN-612568	c 15	N71-28952 *		US-PATENT-APPL-SN-632162	c 14	N69-39937 *	US-PATENT-APPL-SN-644444	c 09	N71-18721 *
US-PATENT-APPL-SN-612740	c 25	N71-20563 *		US-PATENT-APPL-SN-632163	c 30	N71-23723 *	US-PATENT-APPL-SN-644446	c 14	N71-24693 *
US-PATENT-APPL-SN-612899	c 07	N77-18154 *		US-PATENT-APPL-SN-632164	c 15	N69-24319 *	US-PATENT-APPL-SN-644447	c 14	N71-24234 *
US-PATENT-APPL-SN-612964	c 20	N77-10148 *		US-PATENT-APPL-SN-632165	c 14	N71-26266 *	US-PATENT-APPL-SN-644448	c 17	N69-25147 *
US-PATENT-APPL-SN-612965	c 52	N77-14735 *		US-PATENT-APPL-SN-633178	c 25	N84-32447 *	US-PATENT-APPL-SN-644799	c 17	N71-15468 *
US-PATENT-APPL-SN-612966	c 35	N78-12390 *		US-PATENT-APPL-SN-633179	c 34	N86-12547 *	US-PATENT-APPL-SN-645500	c 74	N77-28932 *
US-PATENT-APPL-SN-612967	c 74	N77-18893 *		US-PATENT-APPL-SN-633180	c 09	N89-25242 *	US-PATENT-APPL-SN-645502	c 24	N79-25143 *
US-PATENT-APPL-SN-613004	c 71	N77-26919 *		US-PATENT-APPL-SN-633363	c 25	N86-25428 *	US-PATENT-APPL-SN-645507	c 26	N77-32280 *
US-PATENT-APPL-SN-613046	c 24	N91-15334 *	#	US-PATENT-APPL-SN-633383	c 08	N72-20177 *	US-PATENT-APPL-SN-645508	c 44	N77-14580 *
US-PATENT-APPL-SN-613139	c 27	N86-27450 *		US-PATENT-APPL-SN-633384	c 05	N72-22093 *	US-PATENT-APPL-SN-645510	c 32	N77-30308 *
US-PATENT-APPL-SN-613140	c 33	N86-20669 *		US-PATENT-APPL-SN-633876	c 27	N78-19302 *	US-PATENT-APPL-SN-645563	c 31	N71-20396 *
US-PATENT-APPL-SN-613235	c 14	N73-30394 *		US-PATENT-APPL-SN-633877	c 27	N77-13217 *	US-PATENT-APPL-SN-645571	c 35	N77-14407 *
US-PATENT-APPL-SN-61329	c 31	N70-37986 *		US-PATENT-APPL-SN-634038	c 25	N71-16073 *	US-PATENT-APPL-SN-645573	c 24	N71-25555 *
US-PATENT-APPL-SN-613734	c 52	N77-14738 *		US-PATENT-APPL-SN-634040	c 15	N71-19489 *	US-PATENT-APPL-SN-645584	c 08	N71-12494 *
US-PATENT-APPL-SN-613979	c 33	N71-14035 *		US-PATENT-APPL-SN-634060	c 09	N69-39987 *	US-PATENT-APPL-SN-646044	c 37	N85-34403 *
US-PATENT-APPL-SN-615030	c 35	N78-19465 *		US-PATENT-APPL-SN-634205	c 35	N77-14406 *	US-PATENT-APPL-SN-646124	c 15	N71-23817 *
US-PATENT-APPL-SN-61535	c 15	N72-25453 *		US-PATENT-APPL-SN-634214	c 73	N78-28913 *	US-PATENT-APPL-SN-646333	c 35	N80-26635 *
US-PATENT-APPL-SN-615505	c 34	N85-29180 *		US-PATENT-APPL-SN-634304	c 27	N79-18052 *	US-PATENT-APPL-SN-646424	c 07	N69-27460 *
US-PATENT-APPL-SN-616002	c 34	N86-27593 *		US-PATENT-APPL-SN-635325	c 14	N69-27431 *	US-PATENT-APPL-SN-646704	c 36	N77-25499 *
US-PATENT-APPL-SN-616332	c 24	N77-27188 *		US-PATENT-APPL-SN-635326	c 14	N71-18482 *	US-PATENT-APPL-SN-646934	c 08	N71-18692 *
US-PATENT-APPL-SN-616333	c 33	N76-32457 *		US-PATENT-APPL-SN-635327	c 12	N69-39988 *	US-PATENT-APPL-SN-64709	c 10	N72-28240 *
US-PATENT-APPL-SN-616472	c 74	N77-22951 *		US-PATENT-APPL-SN-635328	c 09	N69-21467 *	US-PATENT-APPL-SN-64723	c 07	N72-25170 *
US-PATENT-APPL-SN-616528	c 24	N80-33482 *		US-PATENT-APPL-SN-635332	c 08	N72-25209 *	US-PATENT-APPL-SN-647298	c 31	N71-16102 *
US-PATENT-APPL-SN-617021	c 23	N71-16101 *		US-PATENT-APPL-SN-635519	c 35	N77-24455 *	US-PATENT-APPL-SN-648034	c 09	N79-21083 *
US-PATENT-APPL-SN-617022	c 07	N69-27462 *	#	US-PATENT-APPL-SN-635531	c 33	N77-14334 *	US-PATENT-APPL-SN-648700	c 74	N78-13874 *
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US-PATENT-APPL-SN-617612	c 52	N77-10780 *		US-PATENT-APPL-SN-635972	c 18	N71-23710 *	US-PATENT-APPL-SN-649076	c 08	N71-24890 *
US-PATENT-APPL-SN-617770	c 14	N71-23267 *		US-PATENT-APPL-SN-63610	c 06	N72-25147 *	US-PATENT-APPL-SN-649078	c 07	N71-19493 *
US-PATENT-APPL-SN-617774	c 18	N71-16124 *		US-PATENT-APPL-SN-636193	c 74	N78-15880 *	US-PATENT-APPL-SN-649327	c 33	N87-25531 *
US-PATENT-APPL-SN-617775	c 06	N71-28807 *		US-PATENT-APPL-SN-636459	c 44	N87-21410 *	US-PATENT-APPL-SN-649328	c 27	N86-19456 *
US-PATENT-APPL-SN-617776	c 18	N69-39895 *	#	US-PATENT-APPL-SN-636463	c 20	N87-16875 *	US-PATENT-APPL-SN-649329	c 05	N84-33400 *
US-PATENT-APPL-SN-617778	c 14	N71-2							

US-PATENT-APPL-SN-650166	c 09	N71-23191 *	US-PATENT-APPL-SN-668238	c 15	N71-15608 *	US-PATENT-APPL-SN-681001	c 74	N76-22993 *
US-PATENT-APPL-SN-651002	c 08	N79-14108 *	US-PATENT-APPL-SN-668241	c 15	N71-17685 *	US-PATENT-APPL-SN-681017	c 44	N77-32583 *
US-PATENT-APPL-SN-651007	c 74	N78-17865 *	US-PATENT-APPL-SN-668242	c 10	N71-27272 *	US-PATENT-APPL-SN-681041	c 37	N86-27629 *
US-PATENT-APPL-SN-651009	c 26	N78-18182 *	US-PATENT-APPL-SN-668247	c 09	N71-20445 *	US-PATENT-APPL-SN-681096	c 44	N77-32582 *
US-PATENT-APPL-SN-651627	c 26	N72-25679 *	US-PATENT-APPL-SN-668248	c 10	N71-26331 *	US-PATENT-APPL-SN-681687	c 03	N71-20273 *
US-PATENT-APPL-SN-651972	c 27	N74-23125 *	US-PATENT-APPL-SN-668249	c 03	N71-20407 *	US-PATENT-APPL-SN-681692	c 08	N71-12506 *
US-PATENT-APPL-SN-652948	c 52	N77-14736 *	US-PATENT-APPL-SN-668257	c 23	N71-16100 *	US-PATENT-APPL-SN-681693	c 09	N71-18588 *
US-PATENT-APPL-SN-652979	c 45	N82-11634 *	US-PATENT-APPL-SN-668302	c 07	N71-12390 *	US-PATENT-APPL-SN-681942	c 18	N71-15688 *
US-PATENT-APPL-SN-653277	c 31	N71-23912 *	US-PATENT-APPL-SN-668432	c 35	N86-29174 *	US-PATENT-APPL-SN-682416	c 34	N77-24423 *
US-PATENT-APPL-SN-653278	c 14	N69-27503 *	US-PATENT-APPL-SN-668751	c 06	N71-11237 *	US-PATENT-APPL-SN-682435	c 27	N77-32308 *
US-PATENT-APPL-SN-653316	c 25	N77-32255 *	US-PATENT-APPL-SN-668755	c 15	N71-17693 *	US-PATENT-APPL-SN-683073	c 44	N81-29525 *
US-PATENT-APPL-SN-653422	c 35	N77-20401 *	US-PATENT-APPL-SN-668771	c 35	N78-32397 *	US-PATENT-APPL-SN-683073	c 44	N82-28780 *
US-PATENT-APPL-SN-653682	c 39	N78-10493 *	US-PATENT-APPL-SN-668783	c 28	N80-10374 *	US-PATENT-APPL-SN-683101	c 33	N87-21235 *
US-PATENT-APPL-SN-654787	c 07	N77-32148 *	US-PATENT-APPL-SN-668968	c 09	N71-12515 *	US-PATENT-APPL-SN-683111	c 33	N87-22894 *
US-PATENT-APPL-SN-655149	c 07	N77-23106 *	US-PATENT-APPL-SN-668969	c 08	N71-19288 *	US-PATENT-APPL-SN-683465	c 27	N82-29451 *
US-PATENT-APPL-SN-655448	c 18	N70-39897 *	US-PATENT-APPL-SN-668971	c 07	N78-33101 *	US-PATENT-APPL-SN-683507	c 15	N71-15609 *
US-PATENT-APPL-SN-655601	c 32	N86-27513 *	US-PATENT-APPL-SN-669140	c 44	N86-32875 *	US-PATENT-APPL-SN-683606	c 09	N71-24717 *
US-PATENT-APPL-SN-655605	c 52	N87-24874 *	US-PATENT-APPL-SN-669336	c 15	N71-17651 *	US-PATENT-APPL-SN-683612	c 01	N69-39981 *
US-PATENT-APPL-SN-655606	c 32	N89-14374 *	US-PATENT-APPL-SN-669911	c 33	N78-17295 *	US-PATENT-APPL-SN-683613	c 15	N71-15610 *
US-PATENT-APPL-SN-655675	c 17	N71-24142 *	US-PATENT-APPL-SN-669928	c 44	N77-22607 *	US-PATENT-APPL-SN-684045	c 07	N80-26298 *
US-PATENT-APPL-SN-655677	c 08	N71-19432 *	US-PATENT-APPL-SN-670814	c 03	N71-19545 *	US-PATENT-APPL-SN-684083	c 09	N71-24596 *
US-PATENT-APPL-SN-655724	c 15	N71-22706 *	US-PATENT-APPL-SN-670829	c 28	N72-23809 *	US-PATENT-APPL-SN-684171	c 26	N78-18183 *
US-PATENT-APPL-SN-656952	c 09	N71-12519 *	US-PATENT-APPL-SN-672209	c 52	N82-22875 *	US-PATENT-APPL-SN-684178	c 15	N71-23812 *
US-PATENT-APPL-SN-656953	c 14	N71-17585 *	US-PATENT-APPL-SN-672210	c 25	N78-10224 *	US-PATENT-APPL-SN-684186	c 35	N88-29150 *
US-PATENT-APPL-SN-656993	c 09	N71-24843 *	US-PATENT-APPL-SN-672219	c 37	N80-28711 *	US-PATENT-APPL-SN-684190	c 54	N86-28619 *
US-PATENT-APPL-SN-656995	c 21	N71-14132 *	US-PATENT-APPL-SN-672219	c 37	N81-26447 *	US-PATENT-APPL-SN-684192	c 54	N86-28620 *
US-PATENT-APPL-SN-657309	c 31	N86-29055 *	US-PATENT-APPL-SN-672220	c 31	N78-17237 *	US-PATENT-APPL-SN-684193	c 54	N86-28618 *
US-PATENT-APPL-SN-657310	c 35	N87-14670 *	US-PATENT-APPL-SN-672221	c 07	N78-27121 *	US-PATENT-APPL-SN-684194	c 35	N85-20300 *
US-PATENT-APPL-SN-657742	c 18	N71-26100 *	US-PATENT-APPL-SN-672222	c 07	N78-25090 *	US-PATENT-APPL-SN-684209	c 10	N71-19418 *
US-PATENT-APPL-SN-657903	c 07	N83-33884 *	US-PATENT-APPL-SN-672223	c 51	N78-27733 *	US-PATENT-APPL-SN-684807	c 75	N78-27913 *
US-PATENT-APPL-SN-657907	c 27	N78-17213 *	US-PATENT-APPL-SN-672224	c 37	N86-25790 *	US-PATENT-APPL-SN-684894	c 17	N71-26773 *
US-PATENT-APPL-SN-657995	c 35	N77-22450 *	US-PATENT-APPL-SN-672382	c 15	N71-23815 *	US-PATENT-APPL-SN-685027	c 25	N78-10225 *
US-PATENT-APPL-SN-657996	c 60	N78-10709 *	US-PATENT-APPL-SN-672383	c 15	N71-24045 *	US-PATENT-APPL-SN-685463	c 15	N71-23254 *
US-PATENT-APPL-SN-657997	c 60	N77-32731 *	US-PATENT-APPL-SN-672384	c 15	N71-27067 *	US-PATENT-APPL-SN-685473	c 17	N71-16044 *
US-PATENT-APPL-SN-657998	c 27	N78-32262 *	US-PATENT-APPL-SN-672388	c 26	N72-17820 *	US-PATENT-APPL-SN-685497	c 07	N69-39974 *
US-PATENT-APPL-SN-658132	c 44	N77-32580 *	US-PATENT-APPL-SN-672636	c 37	N79-11405 *	US-PATENT-APPL-SN-685607	c 37	N86-21850 *
US-PATENT-APPL-SN-658133	c 71	N78-10837 *	US-PATENT-APPL-SN-672695	c 27	N78-17206 *	US-PATENT-APPL-SN-685748	c 07	N71-11282 *
US-PATENT-APPL-SN-65840	c 10	N72-20225 *	US-PATENT-APPL-SN-672815	c 37	N77-23482 *	US-PATENT-APPL-SN-685750	c 27	N71-16392 *
US-PATENT-APPL-SN-658449	c 32	N77-20289 *	US-PATENT-APPL-SN-673226	c 08	N71-12502 *	US-PATENT-APPL-SN-685764	c 14	N69-27459 *
US-PATENT-APPL-SN-658450	c 37	N77-22482 *	US-PATENT-APPL-SN-673227	c 11	N71-24964 *	US-PATENT-APPL-SN-685766	c 15	N69-21924 *
US-PATENT-APPL-SN-658487	c 37	N81-25371 *	US-PATENT-APPL-SN-673228	c 07	N71-19433 *	US-PATENT-APPL-SN-685787	c 14	N71-18625 *
US-PATENT-APPL-SN-658955	c 14	N71-15605 *	US-PATENT-APPL-SN-673229	c 33	N71-15641 *	US-PATENT-APPL-SN-686209	c 15	N71-23809 *
US-PATENT-APPL-SN-658956	c 15	N71-15607 *	US-PATENT-APPL-SN-673685	c 60	N87-21591 *	US-PATENT-APPL-SN-686248	c 14	N71-26774 *
US-PATENT-APPL-SN-658957	c 14	N71-17584 *	US-PATENT-APPL-SN-674194	c 27	N78-17215 *	US-PATENT-APPL-SN-686296	c 18	N71-14014 *
US-PATENT-APPL-SN-658964	c 19	N71-26674 *	US-PATENT-APPL-SN-674195	c 74	N78-17866 *	US-PATENT-APPL-SN-686331	c 38	N78-32447 *
US-PATENT-APPL-SN-658999	c 44	N82-24645 *	US-PATENT-APPL-SN-674355	c 14	N71-20429 *	US-PATENT-APPL-SN-686344	c 15	N71-17688 *
US-PATENT-APPL-SN-659474	c 35	N86-26595 *	US-PATENT-APPL-SN-674356	c 14	N71-23699 *	US-PATENT-APPL-SN-686449	c 34	N78-18355 *
US-PATENT-APPL-SN-659475	c 31	N86-32587 *	US-PATENT-APPL-SN-674357	c 05	N71-12351 *	US-PATENT-APPL-SN-686796	c 15	N70-33311 *
US-PATENT-APPL-SN-659882	c 37	N78-13436 *	US-PATENT-APPL-SN-674395	c 76	N87-23286 *	US-PATENT-APPL-SN-686933	c 14	N71-17588 *
US-PATENT-APPL-SN-66004	c 15	N72-25450 *	US-PATENT-APPL-SN-674700	c 27	N77-31308 *	US-PATENT-APPL-SN-686959	c 02	N88-14071 *
US-PATENT-APPL-SN-6600571	c 26	N71-23654 *	US-PATENT-APPL-SN-675238	c 10	N71-26374 *	US-PATENT-APPL-SN-687251	c 52	N79-12694 *
US-PATENT-APPL-SN-6600572	c 15	N71-15571 *	US-PATENT-APPL-SN-675328	c 35	N78-15461 *	US-PATENT-APPL-SN-687822	c 44	N78-14625 *
US-PATENT-APPL-SN-6600573	c 15	N71-28936 *	US-PATENT-APPL-SN-675351	c 35	N78-10429 *	US-PATENT-APPL-SN-688742	c 15	N71-20441 *
US-PATENT-APPL-SN-660841	c 14	N71-15621 *	US-PATENT-APPL-SN-675471	c 33	N90-20282 *	US-PATENT-APPL-SN-688743	c 15	N71-20393 *
US-PATENT-APPL-SN-660842	c 14	N71-23726 *	US-PATENT-APPL-SN-676012	c 05	N71-11193 *	US-PATENT-APPL-SN-688805	c 14	N71-17701 *
US-PATENT-APPL-SN-660843	c 08	N71-24650 *	US-PATENT-APPL-SN-676375	c 14	N71-18483 *	US-PATENT-APPL-SN-688807	c 03	N71-23239 *
US-PATENT-APPL-SN-6610	c 15	N72-22492 *	US-PATENT-APPL-SN-676386	c 08	N71-12507 *	US-PATENT-APPL-SN-688852	c 44	N78-28594 *
US-PATENT-APPL-SN-661170	c 14	N71-24809 *	US-PATENT-APPL-SN-676387	c 10	N71-25950 *	US-PATENT-APPL-SN-688854	c 54	N77-32722 *
US-PATENT-APPL-SN-661481	c 26	N88-14179 *	US-PATENT-APPL-SN-676391	c 21	N71-11766 *	US-PATENT-APPL-SN-688856	c 54	N78-32720 *
US-PATENT-APPL-SN-6615	c 03	N72-25019 *	US-PATENT-APPL-SN-676432	c 28	N78-24365 *	US-PATENT-APPL-SN-688866	c 15	N71-17686 *
US-PATENT-APPL-SN-6616	c 03	N72-22042 *	US-PATENT-APPL-SN-676432	c 28	N80-20402 *	US-PATENT-APPL-SN-689455	c 54	N74-32546 *
US-PATENT-APPL-SN-6617	c 15	N72-22488 *	US-PATENT-APPL-SN-676432	c 28	N81-14103 *	US-PATENT-APPL-SN-690163	c 14	N71-18465 *
US-PATENT-APPL-SN-66206	c 11	N73-13257 *	US-PATENT-APPL-SN-676433	c 52	N77-28716 *	US-PATENT-APPL-SN-690172	c 11	N72-22245 *
US-PATENT-APPL-SN-662175	c 09	N77-27131 *	US-PATENT-APPL-SN-676957	c 32	N77-18307 *	US-PATENT-APPL-SN-690273	c 20	N87-14420 *
US-PATENT-APPL-SN-662176	c 32	N77-21267 *	US-PATENT-APPL-SN-676958	c 54	N76-22914 *	US-PATENT-APPL-SN-690274	c 05	N87-14314 *
US-PATENT-APPL-SN-662181	c 25	N82-21269 *	US-PATENT-APPL-SN-676958	c 52	N81-25661 *	US-PATENT-APPL-SN-690815	c 32	N77-24328 *
US-PATENT-APPL-SN-662182	c 37	N78-27424 *	US-PATENT-APPL-SN-67730	c 15	N73-13463 *	US-PATENT-APPL-SN-690816	c 37	N78-25426 *
US-PATENT-APPL-SN-662182	c 35	N79-26372 *	US-PATENT-APPL-SN-677351	c 35	N77-32455 *	US-PATENT-APPL-SN-690997	c 16	N71-24828 *
US-PATENT-APPL-SN-662763	c 15	N73-12489 *	US-PATENT-APPL-SN-677352	c 43	N78-10529 *	US-PATENT-APPL-SN-690998	c 30	N71-15990 *
US-PATENT-APPL-SN-662828	c 11	N71-18578 *	US-PATENT-APPL-SN-677353	c 52	N78-14773 *	US-PATENT-APPL-SN-691046	c 36	N77-25501 *
US-PATENT-APPL-SN-662829	c 15	N71-15597 *	US-PATENT-APPL-SN-677475	c 32	N71-26681 *	US-PATENT-APPL-SN-691256	c 35	N77-31465 *
US-PATENT-APPL-SN-663008	c 37	N77-28486 *	US-PATENT-APPL-SN-677476	c 14	N71-17586 *	US-PATENT-APPL-SN-691647	c 52	N82-11770 *
US-PATENT-APPL-SN-663180	c 10	N71-23663 *	US-PATENT-APPL-SN-677505	c 09	N71-13521 *	US-PATENT-APPL-SN-691735	c 09	N71-12520 *
US-PATENT-APPL-SN-663840	c 27	N86-20561 *	US-PATENT-APPL-SN-677506	c 16	N71-15567 *	US-PATENT-APPL-SN-691736	c 18	N71-16210 *
US-PATENT-APPL-SN-664091	c 43	N79-17288 *	US-PATENT-APPL-SN-677508	c 16	N71-15551 *	US-PATENT-APPL-SN-691737	c 07	N71-24742 *
US-PATENT-APPL-SN-665032	c 74	N77-22950 *	US-PATENT-APPL-SN-678115	c 28	N72-22771 *	US-PATENT-APPL-SN-691738	c 08	N71-18694 *
US-PATENT-APPL-SN-665033	c 20	N77-20162 *	US-PATENT-APPL-SN-678520	c 20	N78-24275 *	US-PATENT-APPL-SN-691739	c 32	N71-15974 *
US-PATENT-APPL-SN-665209	c 14	N71-23725 *	US-PATENT-APPL-SN-678700	c 05	N71-19439 *	US-PATENT-APPL-SN-691909	c 05	N71-24606 *
US-PATENT-APPL-SN-665676	c 14	N71-19568 *	US-PATENT-APPL-SN-678813	c 33	N81-29342 *	US-PATENT-APPL-SN-691936	c 26	N77-32279 *
US-PATENT-APPL-SN-665679	c 15	N71-20395 *	US-PATENT-APPL-SN-679055	c 08	N71-24633 *	US-PATENT-APPL-SN-692009	c 15	N72-21463 *
US-PATENT-APPL-SN-665680	c 24	N71-16213 *	US-PATENT-APPL-SN-679862	c 20	N71-16340 *	US-PATENT-APPL-SN-692284	c 27	N78-14164 *
US-PATENT-APPL-SN-665681	c 15	N71-18616 *	US-PATENT-APPL-SN-679885	c 09	N71-12521 *	US-PATENT-APPL-SN-692331	c 10	N71-26326 *
US-PATENT-APPL-SN-665734	c 35	N78-18390 *	US-PATENT-APPL-SN-679980	c 44	N82-24642 *	US-PATENT-APPL-SN-692332	c 07	N71-11281 *
US-PATENT-APPL-SN-665651	c 14	N71-23698 *	US-PATENT-APPL-SN-679987	c 44	N82-24644 *	US-PATENT-APPL-SN-692413	c 25	N78-25148 *
US-PATENT-APPL-SN-666553	c 03	N71-11055 *	US-PATENT-APPL-SN-679996	c 44	N82-24643 *	US-PATENT-APPL-SN-692414	c 32	N77-24331 *
US-PATENT-APPL-SN-666554	c 33	N71-16104 *	US-PATENT-APPL-SN-680015	c 52	N79-14750 *	US-PATENT-APPL-SN-692471	c 09	N71-12518 *
US-PATENT-APPL-SN-666555	c 07	N71-24614 *	US-PATENT-APPL-SN-680048	c 44	N82-24641 *	US-PATENT-APPL-SN-692636	c 27	N81-24258 *
US-PATENT-APPL-SN-666992	c 27	N77-30236 *	US-PATENT-APPL-SN-680067	c 07	N77-27116 *	US-PATENT-APPL-SN-692745	c 36	N87-17026 *
US-PATENT-APPL-SN-667010	c 34	N77-27345 *	US-PATENT-APPL-SN-68023	c 05	N72-33096 *	US-PATENT-APPL-SN-692801	c 37	N87-22977 *
US-PATENT-APPL-SN-667625	c 31	N71-15674 *	US-PATENT-APPL-SN-68024	c 17	N72-22535 *	US-PATENT-APPL-SN-692802	c 37	N87-17034 *
US-PATENT-APPL-SN-667636	c 03	N71-20491 *	US-PATENT-APPL-SN-680605	c 37	N91-14616 *	US-PATENT-APPL-SN-692875	c 37	N86-20788 *
US-PATENT-APPL-SN-667637	c 28	N71-14044 *	US-PATENT-APPL-SN-680938	c 74	N77-26942 *	US-PATENT-APPL-SN-693074	c 44	N78-24609 *
US-PATENT-APPL-SN-667928	c 35	N77-30436 *	US-PATENT-APPL-SN-680939	c 44	N78-10554 *	US-PATENT-APPL-SN-693419	c 31	N71-16222 *
US-PATENT-APPL-SN-667929	c 35	N79-14346 *	US-PATENT-APPL-SN-680957	c 35	N77-27366 *	US-PATENT-APPL-SN-693420		

US-PATENT-APPL-SN-694317	c 12	N71-20436 *	US-PATENT-APPL-SN-710036	c 44	N78-32539 *	US-PATENT-APPL-SN-729704	c 37	N87-23983 *
US-PATENT-APPL-SN-694340	c 11	N71-17600 *	US-PATENT-APPL-SN-71047	c 09	N72-21247 *	US-PATENT-APPL-SN-729719	c 32	N87-25511 *
US-PATENT-APPL-SN-694345	c 10	N71-23669 *	US-PATENT-APPL-SN-71048	c 18	N73-12604 *	US-PATENT-APPL-SN-729766	c 09	N87-14355 *
US-PATENT-APPL-SN-694406	c 35	N79-10389 *	US-PATENT-APPL-SN-710533	c 02	N71-11043 *	US-PATENT-APPL-SN-729767	c 24	N87-27742 *
US-PATENT-APPL-SN-694407	c 27	N80-23452 *	US-PATENT-APPL-SN-710561	c 09	N71-12517 *	US-PATENT-APPL-SN-729768	c 72	N87-21660 *
US-PATENT-APPL-SN-694855	c 33	N77-30365 *	US-PATENT-APPL-SN-710562	c 31	N71-16085 *	US-PATENT-APPL-SN-730045	c 32	N78-24391 *
US-PATENT-APPL-SN-69488	c 23	N75-14834 *	US-PATENT-APPL-SN-710621	c 06	N73-27086 *	US-PATENT-APPL-SN-730046	c 35	N78-32396 *
US-PATENT-APPL-SN-695513	c 07	N78-25089 *	US-PATENT-APPL-SN-710945	c 33	N71-15568 *	US-PATENT-APPL-SN-730162	c 09	N71-18599 *
US-PATENT-APPL-SN-695973	c 05	N71-12343 *	US-PATENT-APPL-SN-710949	c 12	N71-17631 *	US-PATENT-APPL-SN-730468	c 25	N79-11152 *
US-PATENT-APPL-SN-696374	c 44	N80-29835 *	US-PATENT-APPL-SN-711898	c 18	N71-24934 *	US-PATENT-APPL-SN-730700	c 07	N71-24583 *
US-PATENT-APPL-SN-696679	c 38	N79-14398 *	US-PATENT-APPL-SN-711903	c 18	N71-26772 *	US-PATENT-APPL-SN-730701	c 12	N71-18615 *
US-PATENT-APPL-SN-696989	c 27	N77-30237 *	US-PATENT-APPL-SN-711921	c 18	N71-16105 *	US-PATENT-APPL-SN-730702	c 33	N71-16356 *
US-PATENT-APPL-SN-697075	c 15	N71-27184 *	US-PATENT-APPL-SN-711970	c 09	N71-18830 *	US-PATENT-APPL-SN-730703	c 10	N71-13537 *
US-PATENT-APPL-SN-697341	c 09	N71-23188 *	US-PATENT-APPL-SN-711971	c 09	N71-23598 *	US-PATENT-APPL-SN-730733	c 28	N71-16224 *
US-PATENT-APPL-SN-698239	c 33	N78-17294 *	US-PATENT-APPL-SN-711972	c 06	N71-24607 *	US-PATENT-APPL-SN-730734	c 15	N71-17654 *
US-PATENT-APPL-SN-698279	c 37	N87-22976 *	US-PATENT-APPL-SN-712065	c 08	N71-12503 *	US-PATENT-APPL-SN-730778	c 32	N79-10264 *
US-PATENT-APPL-SN-698592	c 15	N71-18580 *	US-PATENT-APPL-SN-712099	c 23	N71-24868 *	US-PATENT-APPL-SN-731388	c 15	N71-28435 *
US-PATENT-APPL-SN-698629	c 09	N71-12516 *	US-PATENT-APPL-SN-712270	c 52	N79-27836 *	US-PATENT-APPL-SN-732321	c 33	N87-28832 *
US-PATENT-APPL-SN-698630	c 09	N71-24841 *	US-PATENT-APPL-SN-712419	c 35	N78-14364 *	US-PATENT-APPL-SN-732455	c 22	N71-28759 *
US-PATENT-APPL-SN-698641	c 74	N86-28732 *	US-PATENT-APPL-SN-712658	c 07	N71-19773 *	US-PATENT-APPL-SN-732630	c 36	N78-14380 *
US-PATENT-APPL-SN-698646	c 24	N78-15180 *	US-PATENT-APPL-SN-712981	c 31	N78-25256 *	US-PATENT-APPL-SN-732833	c 15	N72-28495 *
US-PATENT-APPL-SN-699002	c 32	N78-15323 *	US-PATENT-APPL-SN-713027	c 37	N79-10419 *	US-PATENT-APPL-SN-732917	c 14	N71-17575 *
US-PATENT-APPL-SN-699012	c 33	N78-27326 *	US-PATENT-APPL-SN-713162	c 06	N71-26754 *	US-PATENT-APPL-SN-732921	c 10	N71-26544 *
US-PATENT-APPL-SN-700040	c 18	N72-23581 *	US-PATENT-APPL-SN-713188	c 08	N71-33110 *	US-PATENT-APPL-SN-732922	c 17	N71-28747 *
US-PATENT-APPL-SN-700120	c 15	N71-20440 *	US-PATENT-APPL-SN-713449	c 74	N87-25843 *	US-PATENT-APPL-SN-733039	c 07	N72-12081 *
US-PATENT-APPL-SN-700142	c 21	N71-14159 *	US-PATENT-APPL-SN-713616	c 06	N71-27363 *	US-PATENT-APPL-SN-73310	c 09	N72-25247 *
US-PATENT-APPL-SN-700174	c 02	N71-20570 *	US-PATENT-APPL-SN-714051	c 33	N86-21742 *	US-PATENT-APPL-SN-73367	c 14	N71-15969 *
US-PATENT-APPL-SN-700255	c 33	N87-21234 *	US-PATENT-APPL-SN-714158	c 33	N78-13320 *	US-PATENT-APPL-SN-733825	c 31	N79-11246 *
US-PATENT-APPL-SN-70032	c 11	N73-12264 *	US-PATENT-APPL-SN-714296	c 14	N71-15604 *	US-PATENT-APPL-SN-73422	c 15	N72-25454 *
US-PATENT-APPL-SN-700467	c 52	N79-14749 *	US-PATENT-APPL-SN-714595	c 15	N71-17822 *	US-PATENT-APPL-SN-734366	c 27	N87-22847 *
US-PATENT-APPL-SN-700541	c 10	N71-25139 *	US-PATENT-APPL-SN-715485	c 74	N78-14889 *	US-PATENT-APPL-SN-734805	c 14	N70-34816 *
US-PATENT-APPL-SN-700586	c 15	N71-19570 *	US-PATENT-APPL-SN-715975	c 06	N71-11240 *	US-PATENT-APPL-SN-734901	c 27	N78-17205 *
US-PATENT-APPL-SN-700673	c 39	N77-28511 *	US-PATENT-APPL-SN-716183	c 15	N71-18132 *	US-PATENT-APPL-SN-734902	c 24	N78-14096 *
US-PATENT-APPL-SN-700984	c 11	N71-19494 *	US-PATENT-APPL-SN-716734	c 15	N71-17628 *	US-PATENT-APPL-SN-735911	c 14	N70-41946 *
US-PATENT-APPL-SN-700985	c 15	N69-23190 *	US-PATENT-APPL-SN-716795	c 14	N71-20435 *	US-PATENT-APPL-SN-736286	c 32	N79-11265 *
US-PATENT-APPL-SN-700986	c 12	N71-26387 *	US-PATENT-APPL-SN-716885	c 74	N78-33913 *	US-PATENT-APPL-SN-736848	c 23	N71-16212 *
US-PATENT-APPL-SN-700987	c 09	N71-19610 *	US-PATENT-APPL-SN-717052	c 14	N71-17626 *	US-PATENT-APPL-SN-736909	c 37	N79-11404 *
US-PATENT-APPL-SN-701244	c 05	N72-20096 *	US-PATENT-APPL-SN-717319	c 44	N77-31601 *	US-PATENT-APPL-SN-736910	c 27	N78-32260 *
US-PATENT-APPL-SN-701448	c 52	N78-10686 *	US-PATENT-APPL-SN-717320	c 44	N78-15560 *	US-PATENT-APPL-SN-737018	c 37	N86-20801 *
US-PATENT-APPL-SN-701486	c 31	N87-21159 *	US-PATENT-APPL-SN-717822	c 09	N71-25866 *	US-PATENT-APPL-SN-737974	c 33	N78-18308 *
US-PATENT-APPL-SN-701635	c 12	N71-17578 *	US-PATENT-APPL-SN-718095	c 28	N70-39899 *	US-PATENT-APPL-SN-737975	c 32	N84-27952 *
US-PATENT-APPL-SN-701654	c 03	N71-11049 *	US-PATENT-APPL-SN-718137	c 44	N78-31527 *	US-PATENT-APPL-SN-738119	c 18	N71-15545 *
US-PATENT-APPL-SN-701679	c 02	N71-19287 *	US-PATENT-APPL-SN-718244	c 05	N78-32086 *	US-PATENT-APPL-SN-738218	c 37	N78-27425 *
US-PATENT-APPL-SN-701679	c 07	N73-20174 *	US-PATENT-APPL-SN-718266	c 74	N78-17867 *	US-PATENT-APPL-SN-738314	c 12	N71-17573 *
US-PATENT-APPL-SN-701732	c 24	N71-16095 *	US-PATENT-APPL-SN-718267	c 26	N77-29260 *	US-PATENT-APPL-SN-738315	c 14	N71-27334 *
US-PATENT-APPL-SN-701733	c 10	N71-24844 *	US-PATENT-APPL-SN-718268	c 44	N78-33526 *	US-PATENT-APPL-SN-738315	c 14	N72-31446 *
US-PATENT-APPL-SN-701744	c 21	N71-13958 *	US-PATENT-APPL-SN-718279	c 15	N71-26312 *	US-PATENT-APPL-SN-73834	c 15	N72-23497 *
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US-PATENT-APPL-SN-702396	c 31	N71-16345 *	US-PATENT-APPL-SN-718769	c 14	N71-17662 *	US-PATENT-APPL-SN-739922	c 14	N73-25461 *
US-PATENT-APPL-SN-702911	c 15	N71-24875 *	US-PATENT-APPL-SN-718798	c 76	N91-15898 *	US-PATENT-APPL-SN-73932	c 15	N72-22485 *
US-PATENT-APPL-SN-702967	c 06	N71-24739 *	US-PATENT-APPL-SN-719029	c 14	N71-27186 *	US-PATENT-APPL-SN-739391	c 09	N72-17156 *
US-PATENT-APPL-SN-703107	c 37	N77-22479 *	US-PATENT-APPL-SN-719173	c 28	N70-33331 *	US-PATENT-APPL-SN-739760	c 27	N86-31726 *
US-PATENT-APPL-SN-703847	c 72	N86-33127 *	US-PATENT-APPL-SN-719794	c 35	N86-32695 *	US-PATENT-APPL-SN-739788	c 37	N88-14360 *
US-PATENT-APPL-SN-703905	c 32	N80-14281 *	US-PATENT-APPL-SN-719796	c 24	N86-21590 *	US-PATENT-APPL-SN-739789	c 34	N85-29182 *
US-PATENT-APPL-SN-704180	c 36	N78-27402 *	US-PATENT-APPL-SN-719799	c 35	N86-25752 *	US-PATENT-APPL-SN-739792	c 33	N87-28833 *
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US-PATENT-APPL-SN-704299	c 10	N71-26577 *	US-PATENT-APPL-SN-719870	c 07	N71-26292 *	US-PATENT-APPL-SN-739909	c 37	N78-24545 *
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US-PATENT-APPL-SN-704446	c 10	N71-33407 *	US-PATENT-APPL-SN-720125	c 09	N71-12539 *	US-PATENT-APPL-SN-739915	c 37	N78-24544 *
US-PATENT-APPL-SN-704465	c 07	N71-24741 *	US-PATENT-APPL-SN-72024	c 09	N73-12211 *	US-PATENT-APPL-SN-739927	c 32	N71-16103 *
US-PATENT-APPL-SN-704468	c 25	N79-28253 *	US-PATENT-APPL-SN-720521	c 44	N78-25530 *	US-PATENT-APPL-SN-740153	c 28	N79-11231 *
US-PATENT-APPL-SN-704668	c 10	N71-12554 *	US-PATENT-APPL-SN-720546	c 18	N72-17532 *	US-PATENT-APPL-SN-740155	c 74	N78-27904 *
US-PATENT-APPL-SN-706013	c 33	N71-27862 *	US-PATENT-APPL-SN-721150	c 37	N78-17383 *	US-PATENT-APPL-SN-740156	c 71	N78-14867 *
US-PATENT-APPL-SN-706073	c 76	N79-11920 *	US-PATENT-APPL-SN-721607	c 18	N71-25881 *	US-PATENT-APPL-SN-740457	c 35	N78-32395 *
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US-PATENT-APPL-SN-706424	c 27	N80-24438 *	US-PATENT-APPL-SN-723465	c 15	N72-29488 *	US-PATENT-APPL-SN-741461	c 12	N71-18603 *
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US-PATENT-APPL-SN-706564	c 76	N87-15882 *	US-PATENT-APPL-SN-723488	c 09	N71-28691 *	US-PATENT-APPL-SN-742034	c 33	N78-10377 *
US-PATENT-APPL-SN-706565	c 76	N87-25862 *	US-PATENT-APPL-SN-723804	c 09	N71-24806 *	US-PATENT-APPL-SN-742816	c 14	N71-17656 *
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US-PATENT-APPL-SN-707124	c 44	N77-22606 *	US-PATENT-APPL-SN-724551	c 15	N71-17696 *	US-PATENT-APPL-SN-743525	c 07	N71-28430 *
US-PATENT-APPL-SN-707125	c 39	N78-16387 *	US-PATENT-APPL-SN-724874	c 76	N78-24950 *	US-PATENT-APPL-SN-744477	c 33	N78-25319 *
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US-PATENT-APPL-SN-707495	c 11	N71-18773 *	US-PATENT-APPL-SN-725432	c 07	N71-24622 *	US-PATENT-APPL-SN-744573	c 44	N78-25531 *
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US-PATENT-APPL-SN-708795	c 37	N77-28487 *	US-PATENT-APPL-SN-725714	c 33	N89-14384 *	US-PATENT-APPL-SN-745337	c 28	N72-20758 *
US-PATENT-APPL-SN-708796	c 36	N78-18410 *	US-PATENT-APPL-SN-725719	c 15	N71-26243 *	US-PATENT-APPL-SN-745384	c 25	N79-11151 *
US-PATENT-APPL-SN-708800	c 54	N78-17676 *	US-PATENT-APPL-SN-725725	c 27	N87-16908 *	US-PATENT-APPL-SN-745766	c 37	N79-11403 *
US-PATENT-APPL-SN-708951	c 27	N78-31232 *	US-PATENT-APPL-SN-725727	c 27	N87-22845 *	US-PATENT-APPL-SN-745852	c 12	N71-17661 *
US-PATENT-APPL-SN-709255	c 37	N86-32738 *	US-PATENT-APPL-SN-726898	c 12	N71-17579 *	US-PATENT-APPL-SN-745973	c 36	N86-29204 *
US-PATENT-APPL-SN-709257	c 32	N87-14559 *	US-PATENT-APPL-SN-727034	c 35	N87-14669 *	US-PATENT-APPL-SN-745977	c 35	N87-14671 *
US-PATENT-APPL-SN-709398	c 06	N71-13461 *	US-PATENT-APPL-SN-727035	c 33	N86-32624 *	US-PATENT-APPL-SN-746160	c 37	N86-20797 *
US-PATENT-APPL-SN-709399	c 16	N71-26154 *	US-PATENT-APPL-SN-727444	c 31	N81-15154 *	US-PATENT-APPL-SN-746269	c 44	N78-25528 *
US-PATENT-APPL-SN-709415	c 44	N78-27515 *	US-PATENT-APPL-SN-727480	c 14	N71-17658 *	US-PATENT-APPL-SN-746578	c 12	N79-26075 *
US-PATENT-APPL-SN-709622	c 33	N71-24858 *	US-PATENT-APPL-SN-727503	c 08	N81-19130 *	US-PATENT-APPL-SN-746579	c 33	N81-27397 *
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US-PATENT-APPL-SN-70967	c 32	N74-10132 *	US-PATENT-APPL-SN-727931	c 33	N88-24862 *	US-PATENT-APPL-SN-746809	c 35	N87-22953 *
US-PATENT-APPL-SN								

US-PATENT-APPL-SN-748536	c 33	N86-20680 *	US-PATENT-APPL-SN-762935	c 14	N71-29041 *	US-PATENT-APPL-SN-775072	c 16	N71-24831 *
US-PATENT-APPL-SN-74861	c 27	N72-25699 *	US-PATENT-APPL-SN-762936	c 31	N69-27499 *	US-PATENT-APPL-SN-775239	c 37	N79-14382 *
US-PATENT-APPL-SN-74862	c 27	N73-16764 *	US-PATENT-APPL-SN-762956	c 14	N71-26627 *	US-PATENT-APPL-SN-775548	c 33	N87-21233 *
US-PATENT-APPL-SN-749121	c 07	N72-11149 *	US-PATENT-APPL-SN-762957	c 08	N71-27210 *	US-PATENT-APPL-SN-775870	c 09	N71-24800 *
US-PATENT-APPL-SN-749148	c 10	N71-19421 *	US-PATENT-APPL-SN-763040	c 14	N72-28438 *	US-PATENT-APPL-SN-775870	c 09	N72-22196 *
US-PATENT-APPL-SN-749149	c 15	N71-24897 *	US-PATENT-APPL-SN-763355	c 06	N71-28620 *	US-PATENT-APPL-SN-775877	c 02	N71-11039 *
US-PATENT-APPL-SN-749181	c 09	N71-24803 *	US-PATENT-APPL-SN-763684	c 15	N72-16329 *	US-PATENT-APPL-SN-775966	c 02	N71-11037 *
US-PATENT-APPL-SN-749320	c 14	N72-22443 *	US-PATENT-APPL-SN-763685	c 15	N71-24910 *	US-PATENT-APPL-SN-775988	c 31	N87-21160 *
US-PATENT-APPL-SN-749420	c 04	N82-16059 *	US-PATENT-APPL-SN-763705	c 09	N71-18720 *	US-PATENT-APPL-SN-775989	c 71	N87-21653 *
US-PATENT-APPL-SN-749548	c 10	N71-33129 *	US-PATENT-APPL-SN-763706	c 15	N71-24896 *	US-PATENT-APPL-SN-775990	c 17	N87-25348 *
US-PATENT-APPL-SN-750031	c 05	N73-32012 *	US-PATENT-APPL-SN-763729	c 12	N71-26546 *	US-PATENT-APPL-SN-776029	c 07	N79-10057 *
US-PATENT-APPL-SN-750235	c 25	N75-14844 *	US-PATENT-APPL-SN-763743	c 14	N72-21409 *	US-PATENT-APPL-SN-776146	c 44	N79-17313 *
US-PATENT-APPL-SN-750655	c 74	N78-32854 *	US-PATENT-APPL-SN-763744	c 10	N72-27246 *	US-PATENT-APPL-SN-776146	c 25	N82-21268 *
US-PATENT-APPL-SN-750786	c 07	N71-27341 *	US-PATENT-APPL-SN-763753	c 43	N78-14452 *	US-PATENT-APPL-SN-776185	c 03	N72-22041 *
US-PATENT-APPL-SN-750787	c 10	N71-27126 *	US-PATENT-APPL-SN-763868	c 15	N71-24679 *	US-PATENT-APPL-SN-777764	c 15	N71-27214 *
US-PATENT-APPL-SN-750792	c 37	N79-11402 *	US-PATENT-APPL-SN-763869	c 17	N71-16393 *	US-PATENT-APPL-SN-777765	c 15	N71-29018 *
US-PATENT-APPL-SN-750798	c 85	N79-17747 *	US-PATENT-APPL-SN-764245	c 24	N80-33482 *	US-PATENT-APPL-SN-777765	c 14	N73-28487 *
US-PATENT-APPL-SN-751061	c 18	N71-29040 *	US-PATENT-APPL-SN-764252	c 14	N71-25901 *	US-PATENT-APPL-SN-777766	c 31	N71-16221 *
US-PATENT-APPL-SN-751198	c 03	N71-24718 *	US-PATENT-APPL-SN-764470	c 16	N71-28554 *	US-PATENT-APPL-SN-777818	c 09	N71-27364 *
US-PATENT-APPL-SN-751215	c 22	N72-20597 *	US-PATENT-APPL-SN-764805	c 37	N87-17036 *	US-PATENT-APPL-SN-77786	c 14	N72-27412 *
US-PATENT-APPL-SN-751266	c 15	N71-33518 *	US-PATENT-APPL-SN-764812	c 10	N71-19468 *	US-PATENT-APPL-SN-777983	c 32	N79-24210 *
US-PATENT-APPL-SN-751644	c 85	N87-21755 *	US-PATENT-APPL-SN-764812	c 76	N88-24543 *	US-PATENT-APPL-SN-778195	c 24	N79-16915 *
US-PATENT-APPL-SN-751691	c 37	N87-21332 *	US-PATENT-APPL-SN-764823	c 33	N78-1796 *	US-PATENT-APPL-SN-77869	c 37	N79-21345 *
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US-PATENT-APPL-SN-752050	c 07	N81-19115 *	US-PATENT-APPL-SN-765138	c 44	N79-10513 *	US-PATENT-APPL-SN-779025	c 09	N72-23171 *
US-PATENT-APPL-SN-752729	c 09	N71-26787 *	US-PATENT-APPL-SN-765139	c 44	N78-31526 *	US-PATENT-APPL-SN-779160	c 14	N72-16282 *
US-PATENT-APPL-SN-752748	c 35	N78-25391 *	US-PATENT-APPL-SN-765165	c 32	N79-11264 *	US-PATENT-APPL-SN-779169	c 09	N71-28618 *
US-PATENT-APPL-SN-752946	c 15	N71-29032 *	US-PATENT-APPL-SN-765167	c 32	N79-10263 *	US-PATENT-APPL-SN-779415	c 60	N79-20751 *
US-PATENT-APPL-SN-752947	c 31	N71-15689 *	US-PATENT-APPL-SN-765264	c 02	N71-29128 *	US-PATENT-APPL-SN-779428	c 34	N78-25351 *
US-PATENT-APPL-SN-753103	c 37	N80-14397 *	US-PATENT-APPL-SN-765738	c 03	N71-11057 *	US-PATENT-APPL-SN-779429	c 08	N79-14108 *
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US-PATENT-APPL-SN-753964	c 24	N78-27180 *	US-PATENT-APPL-SN-765979	c 89	N86-22459 *	US-PATENT-APPL-SN-779847	c 15	N71-27091 *
US-PATENT-APPL-SN-753965	c 54	N78-31735 *	US-PATENT-APPL-SN-765980	c 27	N86-27451 *	US-PATENT-APPL-SN-779871	c 33	N79-20314 *
US-PATENT-APPL-SN-753965	c 54	N79-24651 *	US-PATENT-APPL-SN-765981	c 74	N87-28416 *	US-PATENT-APPL-SN-779883	c 27	N79-18052 *
US-PATENT-APPL-SN-753971	c 71	N84-14873 *	US-PATENT-APPL-SN-765991	c 35	N86-26598 *	US-PATENT-APPL-SN-780064	c 15	N71-27372 *
US-PATENT-APPL-SN-753974	c 16	N71-33410 *	US-PATENT-APPL-SN-766170	c 07	N71-24625 *	US-PATENT-APPL-SN-780065	c 12	N71-28741 *
US-PATENT-APPL-SN-753976	c 54	N78-17675 *	US-PATENT-APPL-SN-766244	c 15	N71-26721 *	US-PATENT-APPL-SN-780569	c 54	N78-31736 *
US-PATENT-APPL-SN-753977	c 74	N79-12890 *	US-PATENT-APPL-SN-766245	c 14	N71-27215 *	US-PATENT-APPL-SN-78065	c 08	N72-22162 *
US-PATENT-APPL-SN-753978	c 54	N78-32721 *	US-PATENT-APPL-SN-766697	c 09	N71-33519 *	US-PATENT-APPL-SN-780728	c 32	N78-31321 *
US-PATENT-APPL-SN-754019	c 09	N71-25999 *	US-PATENT-APPL-SN-7668	c 15	N71-26611 *	US-PATENT-APPL-SN-780729	c 33	N79-22373 *
US-PATENT-APPL-SN-754020	c 12	N71-27332 *	US-PATENT-APPL-SN-766999	c 33	N80-23559 *	US-PATENT-APPL-SN-780873	c 32	N81-27341 *
US-PATENT-APPL-SN-754055	c 07	N71-24624 *	US-PATENT-APPL-SN-7669	c 31	N72-18859 *	US-PATENT-APPL-SN-780874	c 35	N78-28411 *
US-PATENT-APPL-SN-754066	c 39	N78-15512 *	US-PATENT-APPL-SN-767741	c 09	N72-27228 *	US-PATENT-APPL-SN-780938	c 54	N80-10799 *
US-PATENT-APPL-SN-75431	c 21	N72-31637 *	US-PATENT-APPL-SN-767911	c 09	N78-31129 *	US-PATENT-APPL-SN-781812	c 36	N87-23960 *
US-PATENT-APPL-SN-754362	c 27	N87-21112 *	US-PATENT-APPL-SN-767912	c 27	N79-14214 *	US-PATENT-APPL-SN-781813	c 27	N87-14516 *
US-PATENT-APPL-SN-754707	c 33	N87-22895 *	US-PATENT-APPL-SN-768336	c 15	N71-17648 *	US-PATENT-APPL-SN-782462	c 33	N79-17133 *
US-PATENT-APPL-SN-755288	c 34	N87-22950 *	US-PATENT-APPL-SN-768470	c 09	N71-28421 *	US-PATENT-APPL-SN-782463	c 72	N79-13826 *
US-PATENT-APPL-SN-755288	c 34	N88-23958 *	US-PATENT-APPL-SN-768473	c 14	N71-17657 *	US-PATENT-APPL-SN-782464	c 32	N79-14267 *
US-PATENT-APPL-SN-755310	c 25	N78-15210 *	US-PATENT-APPL-SN-768662	c 07	N73-25160 *	US-PATENT-APPL-SN-782480	c 33	N78-32340 *
US-PATENT-APPL-SN-755323	c 74	N79-11865 *	US-PATENT-APPL-SN-768795	c 33	N79-10339 *	US-PATENT-APPL-SN-782481	c 44	N78-32542 *
US-PATENT-APPL-SN-755960	c 31	N88-29052 *	US-PATENT-APPL-SN-768942	c 46	N74-23068 *	US-PATENT-APPL-SN-782482	c 33	N79-11315 *
US-PATENT-APPL-SN-756260	c 23	N71-26722 *	US-PATENT-APPL-SN-76899	c 09	N72-22201 *	US-PATENT-APPL-SN-782544	c 14	N71-27325 *
US-PATENT-APPL-SN-756266	c 15	N71-26145 *	US-PATENT-APPL-SN-769148	c 52	N79-10724 *	US-PATENT-APPL-SN-782693	c 33	N79-10337 *
US-PATENT-APPL-SN-756381	c 06	N71-25929 *	US-PATENT-APPL-SN-769149	c 33	N78-32339 *	US-PATENT-APPL-SN-782955	c 07	N71-33108 *
US-PATENT-APPL-SN-756511	c 09	N71-27016 *	US-PATENT-APPL-SN-769592	c 15	N72-16330 *	US-PATENT-APPL-SN-782956	c 10	N71-25865 *
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US-PATENT-APPL-SN-758721	c 52	N79-18580 *	US-PATENT-APPL-SN-770869	c 44	N78-25527 *	US-PATENT-APPL-SN-783890	c 74	N87-25843 *
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US-PATENT-APPL-SN-759256	c 07	N71-27233 *	US-PATENT-APPL-SN-771245	c 27	N81-14076 *	US-PATENT-APPL-SN-784544	c 15	N72-12408 *
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US-PATENT-APPL-SN-759665	c 14	N71-18481 *	US-PATENT-APPL-SN-771537	c 37	N87-23981 *	US-PATENT-APPL-SN-785279	c 27	N81-14077 *
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US-PATENT-APPL-SN-760771	c 44	N79-14528 *	US-PATENT-APPL-SN-772165	c 74	N79-13855 *	US-PATENT-APPL-SN-785780	c 18	N71-28729 *
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US-PATENT-APPL-SN-760797	c 57	N87-16907 *	US-PATENT-APPL-SN-77220	c 14	N72-27409 *	US-PATENT-APPL-SN-7868	c 10	N72-17173 *
US-PATENT-APPL-SN-760799	c 24	N87-29118 *	US-PATENT-APPL-SN-77221	c 08	N72-25210 *	US-PATENT-APPL-SN-786913	c 27	N79-12221 *
US-PATENT-APPL-SN-760809	c 24	N78-24290 *	US-PATENT-APPL-SN-772434	c 52	N80-14687 *	US-PATENT-APPL-SN-78703	c 15	N73-20514 *
US-PATENT-APPL-SN-760810	c 26	N78-32229 *	US-PATENT-APPL-SN-77251	c 25	N70-41628 *	US-PATENT-APPL-SN-78704	c 05	N72-25121 *
US-PATENT-APPL-SN-760819	c 14	N70-34820 *	US-PATENT-APPL-SN-77252	c 02	N70-79339 *	US-PATENT-APPL-SN-78717	c 05	N73-13114 *
US-PATENT-APPL-SN-760927	c 26	N71-25490 *	US-PATENT-APPL-SN-77256	c 15	N70-33323 *	US-PATENT-APPL-SN-787393	c 23	N71-26206 *
US-PATENT-APPL-SN-760928	c 15	N71-28582 *	US-PATENT-APPL-SN-773029	c 09	N71-24893 *	US-PATENT-APPL-SN-787410	c 15	N71-19213 *
US-PATENT-APPL-SN-761007	c 18	N71-26155 *	US-PATENT-APPL-SN-773072	c 10	N72-28241 *	US-PATENT-APPL-SN-78766	c 05	N74-10907 *
US-PATENT-APPL-SN-761235	c 27	N86-32569 *	US-PATENT-APPL-SN-773530	c 25	N75-29192 *	US-PATENT-APPL-SN-787846	c 23	N71-33229 *
US-PATENT-APPL-SN-761252	c 27	N80-32515 *	US-PATENT-APPL-SN-774151	c 15	N71-17692 *	US-PATENT-APPL-SN-787906	c 03	N71-26084 *
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US-PATENT-APPL-SN-789045	c 15	N72-22489 *	US-PATENT-APPL-SN-805012	c 27	N87-21111 *	US-PATENT-APPL-SN-824755	c 09	N70-33182 *
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US-PATENT-APPL-SN-790596	c 35	N88-24927 *	US-PATENT-APPL-SN-806440	c 51	N79-10694 *	US-PATENT-APPL-SN-826326	c 46	N79-22679 *
US-PATENT-APPL-SN-790597	c 37	N88-14359 *	US-PATENT-APPL-SN-806572	c 27	N87-25469 *	US-PATENT-APPL-SN-82647	c 28	N72-22772 *
US-PATENT-APPL-SN-790637	c 44	N78-25529 *	US-PATENT-APPL-SN-807597	c 52	N80-16725 *	US-PATENT-APPL-SN-82648	c 12	N72-25292 *
US-PATENT-APPL-SN-791267	c 23	N72-17747 *	US-PATENT-APPL-SN-807703	c 37	N78-27424 *	US-PATENT-APPL-SN-82649	c 08	N73-30135 *
US-PATENT-APPL-SN-791268	c 33	N72-17947 *	US-PATENT-APPL-SN-807762	c 27	N78-31233 *	US-PATENT-APPL-SN-82658	c 30	N70-40309 *
US-PATENT-APPL-SN-791288	c 28	N71-25213 *	US-PATENT-APPL-SN-808192	c 15	N71-27432 *	US-PATENT-APPL-SN-827185	c 52	N89-16256 *
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US-PATENT-APPL-SN-791693	c 05	N71-11203 *	US-PATENT-APPL-SN-808462	c 10	N71-27136 *	US-PATENT-APPL-SN-827579	c 15	N71-24984 *
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US-PATENT-APPL-SN-792067	c 24	N78-17150 *	US-PATENT-APPL-SN-808576	c 15	N71-27754 *	US-PATENT-APPL-SN-828262	c 37	N79-14383 *
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US-PATENT-APPL-SN-792069	c 37	N79-10418 *	US-PATENT-APPL-SN-808822	c 14	N73-16483 *	US-PATENT-APPL-SN-828920	c 35	N74-22095 *
US-PATENT-APPL-SN-792623	c 14	N72-23457 *	US-PATENT-APPL-SN-808922	c 28	N71-27585 *	US-PATENT-APPL-SN-828921	c 09	N71-27001 *
US-PATENT-APPL-SN-793006	c 52	N86-19885 * #	US-PATENT-APPL-SN-808981	c 33	N87-23904 *	US-PATENT-APPL-SN-828983	c 03	N71-24719 *
US-PATENT-APPL-SN-793657	c 17	N72-28536 *	US-PATENT-APPL-SN-809890	c 44	N79-17314 *	US-PATENT-APPL-SN-828984	c 08	N71-29033 *
US-PATENT-APPL-SN-793770	c 25	N71-15562 *	US-PATENT-APPL-SN-809890	c 44	N80-14474 *	US-PATENT-APPL-SN-829042	c 35	N89-14407 *
US-PATENT-APPL-SN-793771	c 14	N72-22440 *	US-PATENT-APPL-SN-809975	c 44	N87-17399 *	US-PATENT-APPL-SN-829314	c 09	N79-13228 *
US-PATENT-APPL-SN-793772	c 10	N71-18722 *	US-PATENT-APPL-SN-810575	c 15	N71-27169 *	US-PATENT-APPL-SN-829315	c 34	N79-20336 *
US-PATENT-APPL-SN-793823	c 09	N71-33109 *	US-PATENT-APPL-SN-810576	c 15	N73-12492 * #	US-PATENT-APPL-SN-829316	c 18	N79-11108 *
US-PATENT-APPL-SN-794530	c 15	N72-11386 *	US-PATENT-APPL-SN-810576	c 25	N82-21269 *	US-PATENT-APPL-SN-829317	c 52	N80-18690 *
US-PATENT-APPL-SN-794968	c 15	N71-27146 *	US-PATENT-APPL-SN-810579	c 09	N72-22203 *	US-PATENT-APPL-SN-829318	c 52	N80-14684 *
US-PATENT-APPL-SN-795182	c 07	N71-24840 *	US-PATENT-APPL-SN-810579	c 33	N74-22864 *	US-PATENT-APPL-SN-829390	c 44	N79-11469 *
US-PATENT-APPL-SN-795217	c 33	N71-25351 *	US-PATENT-APPL-SN-810815	c 06	N72-22107 *	US-PATENT-APPL-SN-829390	c 44	N80-16452 *
US-PATENT-APPL-SN-795805	c 08	N88-23808 *	US-PATENT-APPL-SN-81095	c 13	N72-25323 *	US-PATENT-APPL-SN-829825	c 03	N71-24681 *
US-PATENT-APPL-SN-795945	c 37	N87-25573 *	US-PATENT-APPL-SN-81096	c 14	N73-14427 *	US-PATENT-APPL-SN-830272	c 33	N81-29342 *
US-PATENT-APPL-SN-796053	c 37	N87-22985 *	US-PATENT-APPL-SN-811037	c 14	N71-26137 *	US-PATENT-APPL-SN-830366	c 16	N72-13437 *
US-PATENT-APPL-SN-796256	c 52	N80-18691 *	US-PATENT-APPL-SN-811038	c 14	N72-20380 *	US-PATENT-APPL-SN-830458	c 46	N79-23555 *
US-PATENT-APPL-SN-796258	c 52	N82-22875 *	US-PATENT-APPL-SN-811309	c 76	N90-20896 *	US-PATENT-APPL-SN-830562	c 39	N80-10507 *
US-PATENT-APPL-SN-796263	c 27	N79-28307 *	US-PATENT-APPL-SN-811401	c 31	N81-25258 *	US-PATENT-APPL-SN-830715	c 15	N71-24903 *
US-PATENT-APPL-SN-796358	c 05	N72-11085 *	US-PATENT-APPL-SN-811509	c 02	N70-33332 *	US-PATENT-APPL-SN-830846	c 31	N80-32584 *
US-PATENT-APPL-SN-796360	c 15	N71-24696 *	US-PATENT-APPL-SN-811542	c 21	N71-24948 *	US-PATENT-APPL-SN-830978	c 28	N71-26173 *
US-PATENT-APPL-SN-796370	c 10	N71-27366 *	US-PATENT-APPL-SN-811815	c 44	N78-31525 *	US-PATENT-APPL-SN-831118	c 08	N72-11172 *
US-PATENT-APPL-SN-796405	c 14	N71-27185 *	US-PATENT-APPL-SN-811892	c 14	N71-27090 *	US-PATENT-APPL-SN-831193	c 32	N88-26568 *
US-PATENT-APPL-SN-796685	c 26	N72-28762 *	US-PATENT-APPL-SN-812447	c 71	N79-20827 *	US-PATENT-APPL-SN-831371	c 31	N87-25492 *
US-PATENT-APPL-SN-796690	c 07	N72-21119 *	US-PATENT-APPL-SN-812998	c 28	N72-22769 *	US-PATENT-APPL-SN-831372	c 35	N88-30108 *
US-PATENT-APPL-SN-796691	c 10	N71-26334 *	US-PATENT-APPL-SN-812999	c 05	N71-12345 *	US-PATENT-APPL-SN-831377	c 37	N87-23982 *
US-PATENT-APPL-SN-797056	c 15	N71-25975 *	US-PATENT-APPL-SN-813338	c 18	N72-22566 *	US-PATENT-APPL-SN-831631	c 32	N79-20297 *
US-PATENT-APPL-SN-797057	c 15	N70-22192 * #	US-PATENT-APPL-SN-813488	c 15	N71-28467 *	US-PATENT-APPL-SN-831632	c 07	N80-26298 *
US-PATENT-APPL-SN-797058	c 05	N71-24738 *	US-PATENT-APPL-SN-813494	c 08	N72-11171 *	US-PATENT-APPL-SN-831633	c 05	N80-14107 *
US-PATENT-APPL-SN-797059	c 15	N71-28465 *	US-PATENT-APPL-SN-814004	c 33	N79-18193 *	US-PATENT-APPL-SN-831634	c 05	N79-12861 *
US-PATENT-APPL-SN-797210	c 28	N78-31255 *	US-PATENT-APPL-SN-814005	c 76	N79-14906 *	US-PATENT-APPL-SN-832296	c 26	N87-28647 * #
US-PATENT-APPL-SN-797219	c 03	N71-33409 *	US-PATENT-APPL-SN-814006	c 37	N79-22475 *	US-PATENT-APPL-SN-832603	c 09	N72-22199 *
US-PATENT-APPL-SN-797294	c 07	N71-12396 *	US-PATENT-APPL-SN-814212	c 14	N72-17326 *	US-PATENT-APPL-SN-833049	c 06	N72-21094 *
US-PATENT-APPL-SN-797795	c 07	N71-27191 *	US-PATENT-APPL-SN-814378	c 25	N79-10162 *	US-PATENT-APPL-SN-833637	c 33	N79-24257 *
US-PATENT-APPL-SN-797796	c 28	N71-14058 *	US-PATENT-APPL-SN-815099	c 60	N86-24224 * #	US-PATENT-APPL-SN-834257	c 32	N80-14281 *
US-PATENT-APPL-SN-798277	c 23	N71-26654 *	US-PATENT-APPL-SN-815103	c 60	N89-26400 *	US-PATENT-APPL-SN-834977	c 27	N87-27336 *
US-PATENT-APPL-SN-798713	c 28	N91-14495 *	US-PATENT-APPL-SN-815106	c 60	N88-24169 *	US-PATENT-APPL-SN-834978	c 27	N86-24841 * #
US-PATENT-APPL-SN-798976	c 52	N81-25661 *	US-PATENT-APPL-SN-815366	c 14	N71-28994 *	US-PATENT-APPL-SN-835058	c 21	N72-22619 *
US-PATENT-APPL-SN-799013	c 09	N71-28468 *	US-PATENT-APPL-SN-815367	c 14	N71-28863 *	US-PATENT-APPL-SN-835059	c 09	N71-26133 *
US-PATENT-APPL-SN-799023	c 37	N79-10421 *	US-PATENT-APPL-SN-815760	c 15	N71-27068 *	US-PATENT-APPL-SN-835060	c 02	N71-26110 *
US-PATENT-APPL-SN-799024	c 24	N78-17149 *	US-PATENT-APPL-SN-816733	c 15	N71-27084 *	US-PATENT-APPL-SN-835146	c 15	N70-33264 *
US-PATENT-APPL-SN-799025	c 32	N80-29539 *	US-PATENT-APPL-SN-816988	c 14	N71-26199 *	US-PATENT-APPL-SN-835152	c 28	N70-38199 *
US-PATENT-APPL-SN-799026	c 44	N79-11468 *	US-PATENT-APPL-SN-817413	c 33	N79-12321 *	US-PATENT-APPL-SN-835153	c 31	N71-17680 *
US-PATENT-APPL-SN-799353	c 09	N71-27232 *	US-PATENT-APPL-SN-817415	c 74	N79-20857 *	US-PATENT-APPL-SN-835419	c 33	N80-18285 *
US-PATENT-APPL-SN-799832	c 33	N79-15245 *	US-PATENT-APPL-SN-817481	c 09	N72-11225 *	US-PATENT-APPL-SN-835544	c 33	N79-14305 *
US-PATENT-APPL-SN-800193	c 37	N87-17038 *	US-PATENT-APPL-SN-817482	c 10	N71-27338 *	US-PATENT-APPL-SN-835628	c 35	N79-14347 *
US-PATENT-APPL-SN-800194	c 76	N88-14835 *	US-PATENT-APPL-SN-817569	c 06	N69-31244 * #	US-PATENT-APPL-SN-836280	c 14	N73-14428 *
US-PATENT-APPL-SN-800204	c 06	N72-17094 *	US-PATENT-APPL-SN-818349	c 21	N71-19212 *	US-PATENT-APPL-SN-836280	c 35	N75-25122 *
US-PATENT-APPL-SN-800209	c 14	N73-32320 *	US-PATENT-APPL-SN-818916	c 05	N79-17847 *	US-PATENT-APPL-SN-836367	c 09	N71-24804 *
US-PATENT-APPL-SN-800209	c 74	N74-20008 *	US-PATENT-APPL-SN-818917	c 32	N79-13214 *	US-PATENT-APPL-SN-837259	c 54	N79-24652 *
US-PATENT-APPL-SN-800973	c 16	N71-24832 *	US-PATENT-APPL-SN-819029	c 20	N82-18314 *	US-PATENT-APPL-SN-837260	c 37	N78-27423 *
US-PATENT-APPL-SN-801290	c 37	N79-18318 *	US-PATENT-APPL-SN-819599	c 15	N71-19214 *	US-PATENT-APPL-SN-837377	c 15	N71-26148 *
US-PATENT-APPL-SN-801290	c 37	N80-26658 *	US-PATENT-APPL-SN-819898	c 30	N72-17873 *	US-PATENT-APPL-SN-837378	c 15	N71-24865 *
US-PATENT-APPL-SN-801290	c 37	N82-19540 *	US-PATENT-APPL-SN-8203	c 15	N70-33180 *	US-PATENT-APPL-SN-837513	c 44	N81-29525 *
US-PATENT-APPL-SN-801312	c 16	N71-15565 *	US-PATENT-APPL-SN-820453	c 03	N72-24037 *	US-PATENT-APPL-SN-837513	c 44	N82-28780 *
US-PATENT-APPL-SN-801336	c 02	N71-13422 *	US-PATENT-APPL-SN-820498	c 89	N79-10969 *	US-PATENT-APPL-SN-837794	c 28	N80-20402 *
US-PATENT-APPL-SN-801432	c 33	N78-32341 *	US-PATENT-APPL-SN-820499	c 76	N79-23798 *	US-PATENT-APPL-SN-837794	c 28	N81-11403 *
US-PATENT-APPL-SN-801452	c 44	N79-11471 *	US-PATENT-APPL-SN-8204	c 31	N70-37981 *	US-PATENT-APPL-SN-837795	c 36	N80-14384 *
US-PATENT-APPL-SN-801660	c 14	N71-26672 *	US-PATENT-APPL-SN-820963	c 07	N71-19854 *	US-PATENT-APPL-SN-837796	c 35	N79-14345 *
US-PATENT-APPL-SN-802769	c 76	N86-25269 * #	US-PATENT-APPL-SN-820964	c 15	N71-28740 *	US-PATENT-APPL-SN-837825	c 15	N71-27006 *
US-PATENT-APPL-SN-802812	c 10	N72-22235 *	US-PATENT-APPL-SN-820965	c 09	N71-13486 *	US-PATENT-APPL-SN-837830	c 02	N71-27088 *
US-PATENT-APPL-SN-802813	c 15	N72-22487 *	US-PATENT-APPL-SN-821586	c 26	N71-14354 *	US-PATENT-APPL-SN-83816	c 44	N74-14784 *
US-PATENT-APPL-SN-802816	c 31	N71-16346 *	US-PATENT-APPL-SN-821681	c 35	N78-27384 *	US-PATENT-APPL-SN-838278	c 60	N74-20836 *
US-PATENT-APPL-SN-802818	c 07	N71-29065 *	US-PATENT-APPL-SN-822039	c 06	N72-25149 *	US-PATENT-APPL-SN-838308	c 52	N80-27072 *
US-PATENT-APPL-SN-802820	c 10	N71-13545 *	US-PATENT-APPL-SN-822088	c 15	N71-27135 *	US-PATENT-APPL-SN-838336	c 44	N79-11470 *
US-PATENT-APPL-SN-802948	c 31	N71-33160 *	US-PATENT-APPL-SN-822089	c 23	N72-23695 *	US-PATENT-APPL-SN-838337	c 31	N79-17029 *
US-PATENT-APPL-SN-802972	c 09	N71-26678 *	US-PATENT-APPL-SN-822090	c 16	N71-27183 *	US-PATENT-APPL-SN-838630	c 14	N71-28993 *
US-PATENT-APPL-SN-80368	c 09	N73-20231 *	US-PATENT-APPL-SN-822518	c 09	N71-13522 *	US-PATENT-APPL-SN-838648	c 33	N87-23879 *
US-PATENT-APPL-SN-80369	c 09	N72-22198 *	US-PATENT-APPL-SN-822519	c 14	N71-28992 *	US-PATENT-APPL-SN-838649	c 34	N91-14562 *
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US-PATENT-APPL-SN-803822	c 26	N80-32484 *	US-PATENT-APPL-SN-82279	c 03	N76-32140 *	US-PATENT-APPL-SN-838655	c 27	N87-22848 *
US-PATENT-APPL-SN-803823	c 44	N79-11467 *	US-PATENT-APPL-SN-82280	c 09	N72-25262 *	US-PATENT-APPL-SN-839934	c 07	N72-20140 *
US-PATENT-APPL-SN-804035	c 35	N79-14348 *	US-PATENT-APPL-SN-823061	c 44	N79-23481 *	US-PATENT-APPL-SN-839935	c 15	N71-24895 *
US-PATENT-APPL-SN-804039	c 31	N87-25491 *	US-PATENT-APPL-SN-823566	c 74	N79-14891 *	US-PATENT-APPL-SN-839941	c 07	N71-26181 *
US-PATENT-APPL-SN-804040	c 32	N87-21206 *	US-PATENT-APPL-SN-823712	c 44	N88-14492 *	US-PATENT-APPL-SN-839963	c 27	N79-33316 *
US-PATENT-APPL-SN-804172	c 28	N71-26781 *	US-PATENT-APPL-SN-823713	c 26	N88-14179 *	US-PATENT-APPL-SN-839963	c 27	N81-14078 *
US-PATENT-APPL-SN-804196	c 33	N87-28831 *	US-PATENT-APPL-SN-824024	c 44	N79-18443 *	US-PATENT-APPL-SN-839994	c 28	N71-28915 *
US-PATENT-APPL-SN-805010	c 35	N87-23944 *	US-PATENT-APPL-SN-8					

US-PATENT-APPL-SN-840308	c 07	N71-33613 *	US-PATENT-APPL-SN-853984	c 21	N70-33181 *	US-PATENT-APPL-SN-871207	c 23	N86-32526 *	#
US-PATENT-APPL-SN-840359	c 23	N71-29125 *	US-PATENT-APPL-SN-854815	c 09	N71-24807 *	US-PATENT-APPL-SN-87222	c 05	N72-27103 *	
US-PATENT-APPL-SN-840816	c 27	N87-28657 *	US-PATENT-APPL-SN-854920	c 15	N79-26100 *	US-PATENT-APPL-SN-872602	c 09	N72-22200 *	
US-PATENT-APPL-SN-840870	c 15	N71-26189 *	US-PATENT-APPL-SN-855004	c 24	N72-11595 *	US-PATENT-APPL-SN-872664	c 08	N70-34675 *	#
US-PATENT-APPL-SN-840900	c 26	N87-25455 *	US-PATENT-APPL-SN-855364	c 52	N81-27783 *	US-PATENT-APPL-SN-873045	c 14	N72-20379 *	
US-PATENT-APPL-SN-840983	c 05	N70-33285 *	US-PATENT-APPL-SN-85585	c 21	N70-35427 *	US-PATENT-APPL-SN-873259	c 08	N72-21200 *	
US-PATENT-APPL-SN-841278	c 33	N77-21316 *	US-PATENT-APPL-SN-855879	c 27	N88-18725 *	US-PATENT-APPL-SN-873260	c 33	N72-17948 *	
US-PATENT-APPL-SN-841845	c 14	N73-32317 *	US-PATENT-APPL-SN-855982	c 31	N88-14223 *	US-PATENT-APPL-SN-873793	c 14	N72-21407 *	
US-PATENT-APPL-SN-84212	c 27	N74-17283 *	US-PATENT-APPL-SN-855983	c 03	N88-14083 *	US-PATENT-APPL-SN-874177	c 11	N72-25284 *	
US-PATENT-APPL-SN-842170	c 11	N70-33278 *	US-PATENT-APPL-SN-856253	c 24	N74-19769 *	US-PATENT-APPL-SN-874319	c 35	N88-23966 *	
US-PATENT-APPL-SN-842171	c 11	N70-33329 *	US-PATENT-APPL-SN-856258	c 05	N71-17599 *	US-PATENT-APPL-SN-874435	c 11	N71-33612 *	
US-PATENT-APPL-SN-84289	c 15	N73-14469 *	US-PATENT-APPL-SN-856279	c 07	N72-21118 *	US-PATENT-APPL-SN-874673	c 27	N82-29454 *	
US-PATENT-APPL-SN-84290	c 05	N73-20137 *	US-PATENT-APPL-SN-856282	c 08	N72-22166 *	US-PATENT-APPL-SN-874674	c 27	N82-29452 *	
US-PATENT-APPL-SN-843022	c 11	N70-33287 *	US-PATENT-APPL-SN-856327	c 05	N72-16015 *	US-PATENT-APPL-SN-874675	c 27	N82-29455 *	
US-PATENT-APPL-SN-843032	c 28	N70-41818 *	US-PATENT-APPL-SN-856328	c 14	N72-22441 *	US-PATENT-APPL-SN-874732	c 09	N71-29139 *	
US-PATENT-APPL-SN-843090	c 27	N79-22300 *	US-PATENT-APPL-SN-856415	c 09	N71-26182 *	US-PATENT-APPL-SN-874733	c 15	N71-26635 *	
US-PATENT-APPL-SN-843251	c 03	N72-11062 *	US-PATENT-APPL-SN-856460	c 25	N79-24073 *	US-PATENT-APPL-SN-874958	c 31	N71-15566 *	
US-PATENT-APPL-SN-843308	c 32	N79-14268 *	US-PATENT-APPL-SN-856461	c 34	N79-12359 *	US-PATENT-APPL-SN-87550	c 06	N72-25146 *	
US-PATENT-APPL-SN-844225	c 05	N72-25120 *	US-PATENT-APPL-SN-856462	c 34	N80-24573 *	US-PATENT-APPL-SN-87551	c 33	N73-16918 *	
US-PATENT-APPL-SN-844243	c 37	N75-29426 *	US-PATENT-APPL-SN-856462	c 44	N81-24519 *	US-PATENT-APPL-SN-875798	c 37	N88-23978 *	
US-PATENT-APPL-SN-844315	c 35	N77-21392 *	US-PATENT-APPL-SN-856464	c 36	N79-14362 *	US-PATENT-APPL-SN-875799	c 34	N87-28867 *	
US-PATENT-APPL-SN-844344	c 24	N79-14156 *	US-PATENT-APPL-SN-856465	c 44	N80-14473 *	US-PATENT-APPL-SN-875849	c 07	N71-33696 *	
US-PATENT-APPL-SN-844346	c 44	N79-11472 *	US-PATENT-APPL-SN-856466	c 72	N80-14877 *	US-PATENT-APPL-SN-875891	c 31	N86-32589 *	#
US-PATENT-APPL-SN-844355	c 03	N72-26031 *	US-PATENT-APPL-SN-857241	c 46	N74-23069 *	US-PATENT-APPL-SN-87597	c 33	N74-22864 *	
US-PATENT-APPL-SN-845365	c 09	N71-13518 *	US-PATENT-APPL-SN-857445	c 05	N71-24728 *	US-PATENT-APPL-SN-876299	c 44	N80-18552 *	
US-PATENT-APPL-SN-845584	c 27	N73-22710 *	US-PATENT-APPL-SN-857967	c 15	N72-20443 *	US-PATENT-APPL-SN-876431	c 33	N79-24254 *	
US-PATENT-APPL-SN-845807	c 15	N72-11391 *	US-PATENT-APPL-SN-858596	c 35	N78-18395 *	US-PATENT-APPL-SN-876432	c 36	N80-18372 *	
US-PATENT-APPL-SN-845971	c 11	N71-28629 *	US-PATENT-APPL-SN-858695	c 11	N72-22427 *	US-PATENT-APPL-SN-876438	c 52	N79-26772 *	
US-PATENT-APPL-SN-845972	c 09	N70-11148 *	US-PATENT-APPL-SN-858762	c 08	N79-23097 *	US-PATENT-APPL-SN-876440	c 51	N80-16714 *	
US-PATENT-APPL-SN-845973	c 11	N71-24985 *	US-PATENT-APPL-SN-858764	c 33	N79-10338 *	US-PATENT-APPL-SN-876441	c 74	N79-20856 *	
US-PATENT-APPL-SN-845974	c 33	N71-25353 *	US-PATENT-APPL-SN-858765	c 33	N79-11313 *	US-PATENT-APPL-SN-876588	c 15	N72-25452 *	
US-PATENT-APPL-SN-845990	c 14	N71-27005 *	US-PATENT-APPL-SN-858766	c 27	N79-14213 *	US-PATENT-APPL-SN-876588	c 25	N74-30502 *	
US-PATENT-APPL-SN-845991	c 14	N71-29134 *	US-PATENT-APPL-SN-858767	c 32	N83-19968 *	US-PATENT-APPL-SN-877445	c 23	N82-29358 *	
US-PATENT-APPL-SN-846427	c 36	N88-14350 *	US-PATENT-APPL-SN-858936	c 07	N80-18039 *	US-PATENT-APPL-SN-877717	c 14	N72-27410 *	
US-PATENT-APPL-SN-846428	c 34	N87-21255 *	US-PATENT-APPL-SN-858950	c 35	N88-17359 *	US-PATENT-APPL-SN-877717	c 14	N73-13417 *	
US-PATENT-APPL-SN-846429	c 35	N88-29149 *	US-PATENT-APPL-SN-860018	c 23	N71-30292 *	US-PATENT-APPL-SN-877990	c 14	N72-28437 *	
US-PATENT-APPL-SN-846430	c 82	N87-29372 *	US-PATENT-APPL-SN-860404	c 37	N81-15364 *	US-PATENT-APPL-SN-878253	c 25	N81-33246 *	
US-PATENT-APPL-SN-846439	c 08	N87-23631 *	US-PATENT-APPL-SN-860405	c 26	N79-22271 *	US-PATENT-APPL-SN-878539	c 35	N80-20560 *	
US-PATENT-APPL-SN-846462	c 07	N87-16828 *	US-PATENT-APPL-SN-860406	c 24	N79-17916 *	US-PATENT-APPL-SN-878540	c 24	N82-26384 *	
US-PATENT-APPL-SN-847023	c 31	N70-37938 *	US-PATENT-APPL-SN-860492	c 09	N72-20199 *	US-PATENT-APPL-SN-878541	c 33	N81-14220 *	
US-PATENT-APPL-SN-847027	c 03	N70-33343 *	US-PATENT-APPL-SN-860493	c 14	N72-16283 *	US-PATENT-APPL-SN-878542	c 33	N79-28416 *	
US-PATENT-APPL-SN-847276	c 37	N81-32510 *	US-PATENT-APPL-SN-860635	c 28	N72-17843 *	US-PATENT-APPL-SN-878730	c 08	N72-22164 *	
US-PATENT-APPL-SN-847277	c 31	N79-28370 *	US-PATENT-APPL-SN-860750	c 08	N72-22165 *	US-PATENT-APPL-SN-878731	c 15	N71-26162 *	
US-PATENT-APPL-SN-847278	c 34	N79-20335 *	US-PATENT-APPL-SN-860751	c 08	N72-18184 *	US-PATENT-APPL-SN-878916	c 60	N87-14863 *	#
US-PATENT-APPL-SN-847596	c 15	N70-10867 *	US-PATENT-APPL-SN-860781	c 18	N72-22567 *	US-PATENT-APPL-SN-879757	c 33	N87-10231 *	#
US-PATENT-APPL-SN-847815	c 52	N75-15270 *	US-PATENT-APPL-SN-861152	c 14	N70-33322 *	US-PATENT-APPL-SN-879758	c 33	N88-23942 *	
US-PATENT-APPL-SN-848282	c 15	N72-21462 *	US-PATENT-APPL-SN-861390	c 28	N79-28342 *	US-PATENT-APPL-SN-880246	c 28	N72-22770 *	
US-PATENT-APPL-SN-848325	c 06	N70-11251 *	US-PATENT-APPL-SN-861391	c 44	N79-12541 *	US-PATENT-APPL-SN-880247	c 09	N70-20737 *	#
US-PATENT-APPL-SN-848351	c 06	N70-11252 *	US-PATENT-APPL-SN-861392	c 71	N79-23753 *	US-PATENT-APPL-SN-880248	c 07	N72-11150 *	
US-PATENT-APPL-SN-848403	c 33	N74-20859 *	US-PATENT-APPL-SN-861396	c 35	N79-14349 *	US-PATENT-APPL-SN-880249	c 15	N72-22482 *	
US-PATENT-APPL-SN-848403	c 36	N75-27364 *	US-PATENT-APPL-SN-861649	c 14	N72-17327 *	US-PATENT-APPL-SN-880250	c 03	N72-20032 *	
US-PATENT-APPL-SN-848418	c 43	N79-26439 *	US-PATENT-APPL-SN-862678	c 09	N82-29302 *	US-PATENT-APPL-SN-880271	c 15	N72-25448 *	
US-PATENT-APPL-SN-848419	c 43	N80-23711 *	US-PATENT-APPL-SN-862680	c 24	N79-31347 *	US-PATENT-APPL-SN-880272	c 14	N71-27058 *	
US-PATENT-APPL-SN-848420	c 43	N79-25443 *	US-PATENT-APPL-SN-862921	c 31	N71-29050 *	US-PATENT-APPL-SN-880398	c 15	N73-12487 *	
US-PATENT-APPL-SN-848421	c 43	N80-14423 *	US-PATENT-APPL-SN-862925	c 24	N88-18628 *	US-PATENT-APPL-SN-880726	c 44	N80-21828 *	
US-PATENT-APPL-SN-848428	c 25	N82-21268 *	US-PATENT-APPL-SN-862942	c 33	N80-20320 *	US-PATENT-APPL-SN-880727	c 35	N79-28527 *	
US-PATENT-APPL-SN-848481	c 17	N70-33283 *	US-PATENT-APPL-SN-862959	c 33	N87-21232 *	US-PATENT-APPL-SN-880728	c 37	N80-10494 *	
US-PATENT-APPL-SN-848776	c 07	N72-22127 *	US-PATENT-APPL-SN-863024	c 46	N80-14603 *	US-PATENT-APPL-SN-880729	c 35	N80-20563 *	
US-PATENT-APPL-SN-848793	c 43	N79-31706 *	US-PATENT-APPL-SN-863276	c 16	N72-12440 *	US-PATENT-APPL-SN-880831	c 11	N72-20244 *	
US-PATENT-APPL-SN-848794	c 44	N79-24431 *	US-PATENT-APPL-SN-863280	c 24	N72-33681 *	US-PATENT-APPL-SN-880838	c 37	N79-28549 *	
US-PATENT-APPL-SN-848805	c 06	N72-17095 *	US-PATENT-APPL-SN-8636	c 15	N72-25451 *	US-PATENT-APPL-SN-880885	c 07	N72-12080 *	
US-PATENT-APPL-SN-848810	c 07	N72-11148 *	US-PATENT-APPL-SN-863770	c 44	N79-18444 *	US-PATENT-APPL-SN-881039	c 09	N71-24842 *	
US-PATENT-APPL-SN-848811	c 10	N71-26142 *	US-PATENT-APPL-SN-863773	c 44	N79-26475 *	US-PATENT-APPL-SN-881041	c 09	N72-22204 *	
US-PATENT-APPL-SN-849106	c 09	N72-22197 *	US-PATENT-APPL-SN-863913	c 14	N71-28991 *	US-PATENT-APPL-SN-882122	c 14	N72-22438 *	
US-PATENT-APPL-SN-849274	c 28	N79-14228 *	US-PATENT-APPL-SN-863914	c 09	N72-31235 *	US-PATENT-APPL-SN-882577	c 07	N71-27056 *	
US-PATENT-APPL-SN-84961	c 02	N70-34178 *	US-PATENT-APPL-SN-863961	c 10	N71-26085 *	US-PATENT-APPL-SN-883090	c 44	N80-29834 *	
US-PATENT-APPL-SN-84962	c 21	N70-36943 *	US-PATENT-APPL-SN-863967	c 11	N71-27036 *	US-PATENT-APPL-SN-883094	c 54	N79-24651 *	
US-PATENT-APPL-SN-8497	c 14	N72-11363 *	US-PATENT-APPL-SN-864020	c 15	N72-17454 *	US-PATENT-APPL-SN-883523	c 09	N72-33204 *	
US-PATENT-APPL-SN-8498	c 05	N71-24729 *	US-PATENT-APPL-SN-864039	c 15	N72-22482 *	US-PATENT-APPL-SN-883524	c 09	N72-21246 *	
US-PATENT-APPL-SN-850504	c 52	N81-14613 *	US-PATENT-APPL-SN-864097	c 07	N71-33606 *	US-PATENT-APPL-SN-883961	c 25	N80-16116 *	
US-PATENT-APPL-SN-850504	c 52	N81-29764 *	US-PATENT-APPL-SN-86417	c 07	N72-25171 *	US-PATENT-APPL-SN-88435	c 35	N74-15090 *	
US-PATENT-APPL-SN-850507	c 25	N79-14169 *	US-PATENT-APPL-SN-8650	c 03	N72-25021 *	US-PATENT-APPL-SN-885049	c 33	N79-23345 *	
US-PATENT-APPL-SN-850586	c 31	N71-25434 *	US-PATENT-APPL-SN-865106	c 09	N72-22202 *	US-PATENT-APPL-SN-885065	c 35	N79-18286 *	
US-PATENT-APPL-SN-850587	c 08	N72-21199 *	US-PATENT-APPL-SN-865109	c 14	N71-28933 *	US-PATENT-APPL-SN-885066	c 33	N80-26599 *	
US-PATENT-APPL-SN-851298	c 15	N72-12409 *	US-PATENT-APPL-SN-865274	c 09	N72-17155 *	US-PATENT-APPL-SN-885067	c 33	N79-28415 *	
US-PATENT-APPL-SN-851394	c 09	N71-24892 *	US-PATENT-APPL-SN-865298	c 15	N72-11388 *	US-PATENT-APPL-SN-885521	c 03	N72-28025 *	
US-PATENT-APPL-SN-852131	c 15	N71-24838 *	US-PATENT-APPL-SN-865329	c 15	N71-29132 *	US-PATENT-APPL-SN-885571	c 09	N71-28886 *	
US-PATENT-APPL-SN-852461	c 27	N89-16042 *	US-PATENT-APPL-SN-865548	c 09	N72-21243 *	US-PATENT-APPL-SN-885594	c 15	N71-29133 *	
US-PATENT-APPL-SN-852466	c 37	N87-24689 *	US-PATENT-APPL-SN-865811	c 09	N71-27053 *	US-PATENT-APPL-SN-886121	c 39	N87-25601 *	
US-PATENT-APPL-SN-852467	c 27	N87-24564 *	US-PATENT-APPL-SN-865909	c 14	N72-11364 *	US-PATENT-APPL-SN-886149	c 27	N87-28656 *	
US-PATENT-APPL-SN-852468	c 72	N87-21661 *	US-PATENT-APPL-SN-866442	c 25	N72-24753 *	US-PATENT-APPL-SN-886149	c 27	N89-29538 *	
US-PATENT-APPL-SN-852843	c 09	N72-22195 *	US-PATENT-APPL-SN-867841	c 11	N72-22246 *	US-PATENT-APPL-SN-887685	c 10	N72-20223 *	
US-PATENT-APPL-SN-853349	c 35	N81-33448 *	US-PATENT-APPL-SN-867842	c 23	N72-27728 *	US-PATENT-APPL-SN-887698	c 09	N72-17153 *	
US-PATENT-APPL-SN-853361	c 37	N87-22977 *	US-PATENT-APPL-SN-867843	c 14	N71-26161 *	US-PATENT-APPL-SN-887699	c 15	N72-17452 *	
US-PATENT-APPL-SN-853641	c 33	N72-25913 *	US-PATENT-APPL-SN-867851	c 15	N72-22484 *	US-PATENT-APPL-SN-887700	c 07	N71-28980 *	
US-PATENT-APPL-SN-853677	c 34	N79-31523 *	US-PATENT-APPL-SN-867986	c 74	N86-33138 *	US-PATENT-APPL-SN-887701	c 08	N71-29034 *	
US-PATENT-APPL-SN-853679	c 35	N79-14346 *	US-PATENT-APPL-SN-867987	c 27	N88-23894 *	US-PATENT-APPL-SN-888362	c 33	N80-14330 *	
US-PATENT-APPL-SN-853705	c 45	N79-12584 *	US-PATENT-APPL-SN-868249	c 33	N80-18286 *	US-PATENT-APPL-SN-888432	c 74	N81-17886 *	
US-PATENT-APPL-SN-853716	c 09	N71-24904 *	US-PATENT-APPL-SN-868445	c 14	N72-17323 *	US-PATENT-APPL-SN-888434	c 51	N83-27569 *	
US-PATENT-APPL-SN-853746	c 02	N72-11018 *	US-PATENT-APPL-SN-868529	c 08	N72-22167 *	US-PATENT-APPL-SN-889374	c 08	N72-25207 *	
US-PATENT-APPL-SN-853763	c 07	N70-12616 *	US-PATENT-						

US-PATENT-APPL-SN-889437	c 15	N72-11392 *	US-PATENT-APPL-SN-918533	c 32	N79-23310 *	US-PATENT-APPL-SN-94952	c 14	N70-34158 *
US-PATENT-APPL-SN-889438	c 15	N72-18477 *	US-PATENT-APPL-SN-918534	c 33	N80-32650 *	US-PATENT-APPL-SN-949886	c 33	N80-18285 *
US-PATENT-APPL-SN-889478	c 08	N71-29138 *	US-PATENT-APPL-SN-918535	c 35	N80-18357 *	US-PATENT-APPL-SN-950876	c 37	N80-31790 *
US-PATENT-APPL-SN-889479	c 14	N72-17325 *	US-PATENT-APPL-SN-918537	c 26	N80-14229 *	US-PATENT-APPL-SN-950877	c 52	N81-25660 *
US-PATENT-APPL-SN-889551	c 21	N72-21624 *	US-PATENT-APPL-SN-918705	c 52	N82-33996 *	US-PATENT-APPL-SN-951422	c 51	N81-14605 *
US-PATENT-APPL-SN-889554	c 15	N72-20444 *	US-PATENT-APPL-SN-920878	c 24	N78-27184 *	US-PATENT-APPL-SN-951423	c 48	N80-18667 *
US-PATENT-APPL-SN-889555	c 09	N72-17154 *	US-PATENT-APPL-SN-920879	c 44	N79-31752 *	US-PATENT-APPL-SN-951828	c 37	N80-29703 *
US-PATENT-APPL-SN-889556	c 14	N72-18411 *	US-PATENT-APPL-SN-921572	c 24	N90-25196 *	US-PATENT-APPL-SN-951829	c 33	N80-18287 *
US-PATENT-APPL-SN-889557	c 11	N72-17183 *	US-PATENT-APPL-SN-921573	c 37	N87-14704 *	US-PATENT-APPL-SN-951830	c 28	N80-28536 *
US-PATENT-APPL-SN-889558	c 15	N72-22491 *	US-PATENT-APPL-SN-921574	c 31	N90-19425 *	US-PATENT-APPL-SN-951831	c 08	N73-12175 *
US-PATENT-APPL-SN-889583	c 15	N72-21464 *	US-PATENT-APPL-SN-921577	c 37	N89-13785 *	US-PATENT-APPL-SN-95189	c 74	N77-21941 *
US-PATENT-APPL-SN-889584	c 08	N72-31226 *	US-PATENT-APPL-SN-921626	c 25	N80-23383 *	US-PATENT-APPL-SN-953313	c 32	N81-14187 *
US-PATENT-APPL-SN-889670	c 39	N79-22537 *	US-PATENT-APPL-SN-921627	c 33	N80-14332 *	US-PATENT-APPL-SN-953314	c 37	N81-14319 *
US-PATENT-APPL-SN-889671	c 24	N81-14000 *	US-PATENT-APPL-SN-923758	c 20	N78-27176 *	US-PATENT-APPL-SN-953389	c 74	N80-27185 *
US-PATENT-APPL-SN-889671	c 24	N81-33235 *	US-PATENT-APPL-SN-923758	c 20	N80-10278 *	US-PATENT-APPL-SN-953390	c 74	N80-21138 *
US-PATENT-APPL-SN-889682	c 15	N72-25447 *	US-PATENT-APPL-SN-924297	c 71	N90-12289 *	US-PATENT-APPL-SN-953391	c 72	N80-33186 *
US-PATENT-APPL-SN-890445	c 18	N87-27713 *	US-PATENT-APPL-SN-924398	c 14	N87-25344 *	US-PATENT-APPL-SN-956160	c 32	N80-18253 *
US-PATENT-APPL-SN-890575	c 09	N87-25334 *	US-PATENT-APPL-SN-924399	c 76	N88-24545 *	US-PATENT-APPL-SN-956161	c 27	N79-11215 *
US-PATENT-APPL-SN-890577	c 27	N88-29040 *	US-PATENT-APPL-SN-924467	c 23	N88-24692 *	US-PATENT-APPL-SN-956166	c 33	N81-19393 *
US-PATENT-APPL-SN-890586	c 32	N87-15390 *	US-PATENT-APPL-SN-924470	c 23	N90-19300 *	US-PATENT-APPL-SN-956168	c 27	N81-25209 *
US-PATENT-APPL-SN-890583	c 37	N88-23981 *	US-PATENT-APPL-SN-924472	c 32	N87-18692 *	US-PATENT-APPL-SN-956529	c 35	N80-26635 *
US-PATENT-APPL-SN-890982	c 35	N88-29150 *	US-PATENT-APPL-SN-924474	c 23	N88-26404 *	US-PATENT-APPL-SN-957452	c 32	N80-24510 *
US-PATENT-APPL-SN-891243	c 44	N79-25482 *	US-PATENT-APPL-SN-924474	c 25	N90-23497 *	US-PATENT-APPL-SN-958573	c 25	N80-20334 *
US-PATENT-APPL-SN-891244	c 05	N79-24976 *	US-PATENT-APPL-SN-924474	c 23	N91-17141 *	US-PATENT-APPL-SN-958575	c 27	N80-24437 *
US-PATENT-APPL-SN-891356	c 35	N80-18359 *	US-PATENT-APPL-SN-925189	c 76	N88-24544 *	US-PATENT-APPL-SN-961831	c 33	N81-25299 *
US-PATENT-APPL-SN-891358	c 44	N80-14474 *	US-PATENT-APPL-SN-9251	c 03	N70-34646 *	US-PATENT-APPL-SN-961832	c 37	N81-24442 *
US-PATENT-APPL-SN-891370	c 20	N79-20179 *	US-PATENT-APPL-SN-927972	c 74	N89-14078 *	US-PATENT-APPL-SN-961833	c 37	N82-21587 *
US-PATENT-APPL-SN-891372	c 37	N79-22474 *	US-PATENT-APPL-SN-927987	c 62	N90-19776 *	US-PATENT-APPL-SN-964009	c 02	N80-20224 *
US-PATENT-APPL-SN-891373	c 31	N80-18231 *	US-PATENT-APPL-SN-927992	c 37	N87-18818 *	US-PATENT-APPL-SN-964754	c 33	N80-20487 *
US-PATENT-APPL-SN-891872	c 25	N82-24312 *	US-PATENT-APPL-SN-928128	c 44	N80-18551 *	US-PATENT-APPL-SN-964754	c 44	N81-29524 *
US-PATENT-APPL-SN-89209	c 09	N72-25248 *	US-PATENT-APPL-SN-928129	c 35	N80-14371 *	US-PATENT-APPL-SN-965367	c 33	N81-14221 *
US-PATENT-APPL-SN-89210	c 07	N73-26119 *	US-PATENT-APPL-SN-928130	c 35	N80-20559 *	US-PATENT-APPL-SN-965368	c 74	N81-17888 *
US-PATENT-APPL-SN-89211	c 14	N73-12446 *	US-PATENT-APPL-SN-928131	c 09	N79-31228 *	US-PATENT-APPL-SN-969755	c 05	N81-19087 *
US-PATENT-APPL-SN-89212	c 08	N72-25208 *	US-PATENT-APPL-SN-928133	c 44	N80-18550 *	US-PATENT-APPL-SN-969756	c 37	N81-14317 *
US-PATENT-APPL-SN-893382	c 34	N79-24285 *	US-PATENT-APPL-SN-928137	c 52	N80-23969 *	US-PATENT-APPL-SN-969757	c 24	N84-16262 *
US-PATENT-APPL-SN-893383	c 31	N81-27323 *	US-PATENT-APPL-SN-929083	c 36	N80-16321 *	US-PATENT-APPL-SN-969759	c 25	N82-11144 *
US-PATENT-APPL-SN-893657	c 51	N80-27067 *	US-PATENT-APPL-SN-929084	c 37	N81-19455 *	US-PATENT-APPL-SN-969760	c 39	N81-25400 *
US-PATENT-APPL-SN-893657	c 24	N81-17170 *	US-PATENT-APPL-SN-929086	c 24	N81-13999 *	US-PATENT-APPL-SN-969761	c 32	N82-12297 *
US-PATENT-APPL-SN-893657	c 24	N81-26179 *	US-PATENT-APPL-SN-929087	c 35	N80-28687 *	US-PATENT-APPL-SN-969762	c 33	N82-29539 *
US-PATENT-APPL-SN-893865	c 37	N81-24443 *	US-PATENT-APPL-SN-929088	c 74	N80-24149 *	US-PATENT-APPL-SN-971112	c 21	N70-34539 *
US-PATENT-APPL-SN-893903	c 60	N81-15706 *	US-PATENT-APPL-SN-929862	c 02	N89-12551 *	US-PATENT-APPL-SN-971473	c 23	N81-29160 *
US-PATENT-APPL-SN-894213	c 37	N80-23655 *	US-PATENT-APPL-SN-929865	c 18	N89-12621 *	US-PATENT-APPL-SN-971474	c 20	N82-18314 *
US-PATENT-APPL-SN-894541	c 54	N89-29953 *	US-PATENT-APPL-SN-929869	c 35	N87-23941 *	US-PATENT-APPL-SN-971475	c 27	N81-24257 *
US-PATENT-APPL-SN-897828	c 52	N81-29763 *	US-PATENT-APPL-SN-929869	c 52	N90-25119 *	US-PATENT-APPL-SN-971596	c 27	N80-32516 *
US-PATENT-APPL-SN-897829	c 44	N79-25481 *	US-PATENT-APPL-SN-929875	c 18	N88-28958 *	US-PATENT-APPL-SN-972252	c 35	N81-33448 *
US-PATENT-APPL-SN-897830	c 35	N80-21719 *	US-PATENT-APPL-SN-929875	c 18	N89-28554 *	US-PATENT-APPL-SN-97343	c 10	N72-27246 *
US-PATENT-APPL-SN-897831	c 44	N80-20808 *	US-PATENT-APPL-SN-929876	c 32	N91-14523 *	US-PATENT-APPL-SN-974292	c 26	N80-23419 *
US-PATENT-APPL-SN-897832	c 43	N81-26509 *	US-PATENT-APPL-SN-930217	c 25	N88-24732 *	US-PATENT-APPL-SN-974471	c 32	N81-14185 *
US-PATENT-APPL-SN-897840	c 31	N81-14137 *	US-PATENT-APPL-SN-931090	c 37	N80-26658 *	US-PATENT-APPL-SN-974472	c 37	N81-15363 *
US-PATENT-APPL-SN-898449	c 31	N88-29052 *	US-PATENT-APPL-SN-931090	c 37	N82-19540 *	US-PATENT-APPL-SN-974473	c 60	N81-27814 *
US-PATENT-APPL-SN-899123	c 44	N79-14528 *	US-PATENT-APPL-SN-931217	c 37	N80-32716 *	US-PATENT-APPL-SN-974474	c 25	N81-19242 *
US-PATENT-APPL-SN-899683	c 18	N87-14413 *	US-PATENT-APPL-SN-931218	c 20	N80-18097 *	US-PATENT-APPL-SN-974475	c 33	N81-17349 *
US-PATENT-APPL-SN-899828	c 32	N80-18252 *	US-PATENT-APPL-SN-933186	c 27	N80-32515 *	US-PATENT-APPL-SN-974476	c 52	N81-14613 *
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US-PATENT-APPL-SN-900842	c 32	N79-24203 *	US-PATENT-APPL-SN-933961	c 76	N87-29360 *	US-PATENT-APPL-SN-98517	c 09	N72-25250 *
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US-PATENT-CLASS-128-327	c 52	N82-11770 *	US-PATENT-CLASS-136-166	c 03	N71-23336 *	US-PATENT-CLASS-136-89CC	c 44	N78-25527 *
US-PATENT-CLASS-128-328	c 52	N84-34913 *	US-PATENT-CLASS-136-166	c 03	N72-20032 *	US-PATENT-CLASS-136-89CC	c 44	N78-25529 *
US-PATENT-CLASS-128-329R	c 52	N79-27836 *	US-PATENT-CLASS-136-170	c 03	N71-11051 *	US-PATENT-CLASS-136-89CC	c 44	N79-11467 *
US-PATENT-CLASS-128-346	c 52	N81-25660 *	US-PATENT-CLASS-136-175	c 03	N72-20034 *	US-PATENT-CLASS-136-89CC	c 44	N79-17314 *
US-PATENT-CLASS-128-346	c 52	N84-11744 *	US-PATENT-CLASS-136-179	c 03	N70-41864 *	US-PATENT-CLASS-136-89CC	c 44	N79-25482 *
US-PATENT-CLASS-128-346	c 52	N84-28388 *	US-PATENT-CLASS-136-182	c 03	N71-10728 *	US-PATENT-CLASS-136-89CC	c 44	N79-31752 *
US-PATENT-CLASS-128-348	c 52	N80-16725 *	US-PATENT-CLASS-136-182	c 03	N71-20407 *	US-PATENT-CLASS-136-89H	c 44	N78-25528 *
US-PATENT-CLASS-128-379	c 52	N77-14736 *	US-PATENT-CLASS-136-182	c 03	N71-20491 *	US-PATENT-CLASS-136-89H	c 44	N78-25529 *
US-PATENT-CLASS-128-38	c 54	N84-16803 *	US-PATENT-CLASS-136-182	c 44	N74-27519 *	US-PATENT-CLASS-136-89PC	c 44	N79-25482 *
US-PATENT-CLASS-128-400	c 52	N77-14736 *	US-PATENT-CLASS-136-182	c 44	N76-14601 *	US-PATENT-CLASS-136-89PC	c 44	N79-31753 *
US-PATENT-CLASS-128-402	c 05	N72-20096 *	US-PATENT-CLASS-136-202	c 09	N72-12136 *	US-PATENT-CLASS-136-89P	c 44	N77-31601 *
US-PATENT-CLASS-128-402	c 52	N77-14736 *	US-PATENT-CLASS-136-202	c 03	N72-26031 *	US-PATENT-CLASS-136-89P	c 44	N78-25528 *
US-PATENT-CLASS-128-410	c 52	N77-28717 *	US-PATENT-CLASS-136-202	c 44	N76-16612 *	US-PATENT-CLASS-136-89P	c 44	N78-25529 *
US-PATENT-CLASS-128-417	c 05	N72-25120 *	US-PATENT-CLASS-136-202	c 35	N77-32454 *	US-PATENT-CLASS-136-89P	c 44	N78-27515 *
US-PATENT-CLASS-128-417	c 05	N72-27103 *	US-PATENT-CLASS-136-202	c 35	N79-14346 *	US-PATENT-CLASS-136-89P	c 44	N79-17314 *
US-PATENT-CLASS-128-418	c 52	N76-29896 *	US-PATENT-CLASS-136-206	c 03	N72-11062 *	US-PATENT-CLASS-136-89P	c 44	N80-14474 *
US-PATENT-CLASS-128-418	c 52	N77-14738 *	US-PATENT-CLASS-136-206	c 09	N72-12136 *	US-PATENT-CLASS-136-89SG	c 44	N78-24609 *
US-PATENT-CLASS-128-419P	c 52	N76-29896 *	US-PATENT-CLASS-136-206	c 44	N76-14595 *	US-PATENT-CLASS-136-89SG	c 44	N80-24741 *
US-PATENT-CLASS-128-421	c 52	N82-29863 *	US-PATENT-CLASS-136-206	c 44	N76-31666 *	US-PATENT-CLASS-136-89SJ	c 44	N78-13526 *
US-PATENT-CLASS-128-422	c 52	N82-33996 *	US-PATENT-CLASS-136-20	c 44	N74-19693 *	US-PATENT-CLASS-136-89SJ	c 44	N79-11467 *
US-PATENT-CLASS-128-62A	c 52	N82-29862 *	US-PATENT-CLASS-136-210	c 44	N76-16612 *	US-PATENT-CLASS-136-89SJ	c 44	N79-14528 *
US-PATENT-CLASS-128-639	c 52	N79-27836 *	US-PATENT-CLASS-136-211	c 35	N76-15434 *	US-PATENT-CLASS-136-89SJ	c 44	N79-25482 *
US-PATENT-CLASS-128-642	c 52	N80-27072 *	US-PATENT-CLASS-136-212	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 03	N69-24267 *
US-PATENT-CLASS-128-642	c 52	N81-14612 *	US-PATENT-CLASS-136-213	c 14	N69-27459 *	US-PATENT-CLASS-136-89	c 03	N71-11049 *
US-PATENT-CLASS-128-642	c 52	N81-20703 *	US-PATENT-CLASS-136-213	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 03	N71-11050 *
US-PATENT-CLASS-128-660	c 52	N79-26771 *	US-PATENT-CLASS-136-224	c 14	N73-12447 *	US-PATENT-CLASS-136-89	c 03	N71-11056 *
US-PATENT-CLASS-128-660	c 52	N83-27578 *	US-PATENT-CLASS-136-225	c 14	N73-24472 *	US-PATENT-CLASS-136-89	c 03	N71-18698 *
US-PATENT-CLASS-128-660	c 52	N85-30618 *	US-PATENT-CLASS-136-225	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 03	N71-19545 *
US-PATENT-CLASS-128-661.03	c 52	N90-21519 *	US-PATENT-CLASS-136-225	c 44	N85-21768 *	US-PATENT-CLASS-136-89	c 03	N71-20492 *
US-PATENT-CLASS-128-663	c 52	N83-27578 *	US-PATENT-CLASS-136-227	c 09	N72-12136 *	US-PATENT-CLASS-136-89	c 03	N71-20895 *
US-PATENT-CLASS-128-665	c 52	N81-27783 *	US-PATENT-CLASS-136-228	c 33	N71-15568 *	US-PATENT-CLASS-136-89	c 26	N71-23043 *
US-PATENT-CLASS-128-666	c 52	N80-23969 *	US-PATENT-CLASS-136-230	c 14	N71-23039 *	US-PATENT-CLASS-136-89	c 03	N71-23187 *
US-PATENT-CLASS-128-671	c 52	N91-14709 *	US-PATENT-CLASS-136-230	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 03	N71-23449 *
US-PATENT-CLASS-128-675	c 35	N90-23706 *	US-PATENT-CLASS-136-232	c 35	N77-14409 *	US-PATENT-CLASS-136-89	c 03	N71-33409 *
US-PATENT-CLASS-128-686	c 52	N82-11770 *	US-PATENT-CLASS-136-233	c 14	N72-27410 *	US-PATENT-CLASS-136-89	c 03	N72-20031 *
US-PATENT-CLASS-128-689	c 52	N91-14709 *	US-PATENT-CLASS-136-233	c 14	N73-13417 *	US-PATENT-CLASS-136-89	c 03	N72-22042 *
US-PATENT-CLASS-128-690	c 52	N80-23969 *	US-PATENT-CLASS-136-233	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 31	N72-22874 *
US-PATENT-CLASS-128-691	c 52	N82-11770 *	US-PATENT-CLASS-136-233	c 35	N77-14409 *	US-PATENT-CLASS-136-89	c 03	N72-24037 *
US-PATENT-CLASS-128-6	c 52	N80-16725 *	US-PATENT-CLASS-136-236R	c 35	N77-32454 *	US-PATENT-CLASS-136-89	c 09	N72-25259 *
US-PATENT-CLASS-128-706	c 52	N91-14709 *	US-PATENT-CLASS-136-236	c 35	N79-14346 *	US-PATENT-CLASS-136-89	c 03	N72-27053 *
US-PATENT-CLASS-128-716	c 52	N91-14709 *	US-PATENT-CLASS-136-240	c 35	N77-32454 *	US-PATENT-CLASS-136-89	c 09	N73-32109 *
US-PATENT-CLASS-128-736	c 52	N85-30618 *	US-PATENT-CLASS-136-246	c 44	N85-21768 *	US-PATENT-CLASS-136-89	c 44	N74-14784 *
US-PATENT-CLASS-128-748	c 52	N80-18691 *	US-PATENT-CLASS-136-249	c 44	N81-12542 *	US-PATENT-CLASS-136-89	c 44	N76-14600 *
US-PATENT-CLASS-128-748	c 35	N90-23706 *	US-PATENT-CLASS-136-249	c 44	N82-29709 *	US-PATENT-CLASS-136-89	c 44	N76-28635 *
US-PATENT-CLASS-128-760	c 52	N80-18690 *	US-PATENT-CLASS-136-249	c 44	N82-31764 *	US-PATENT-CLASS-136-89	c 44	N76-31666 *
US-PATENT-CLASS-128-760	c 52	N81-29763 *	US-PATENT-CLASS-136-249	c 44	N83-32177 *	US-PATENT-CLASS-136-89	c 44	N77-10635 *
US-PATENT-CLASS-128-761	c 52	N81-24711 *	US-PATENT-CLASS-136-249	c 44	N87-17399 *	US-PATENT-CLASS-136-89	c 44	N77-14580 *
US-PATENT-CLASS-128-774	c 52	N80-27072 *	US-PATENT-CLASS-136-249	c 33	N87-23879 *	US-PATENT-CLASS-136-89	c 44	N77-19571 *
US-PATENT-CLASS-128-774	c 52	N81-20703 *	US-PATENT-CLASS-136-24	c 09	N73-32108 *	US-PATENT-CLASS-136-89	c 44	N79-11468 *
US-PATENT-CLASS-128-774	c 52	N83-25346 *	US-PATENT-CLASS-136-253	c 44	N85-34441 *	US-PATENT-CLASS-136-90	c 44	N76-14601 *
US-PATENT-CLASS-128-778	c 52	N82-22875 *	US-PATENT-CLASS-136-255	c 44	N81-29525 *	US-PATENT-CLASS-137-DIG.9	c 54	N76-24900 *
US-PATENT-CLASS-128-778	c 35	N90-23706 *	US-PATENT-CLASS-136-255	c 44	N83-14692 *	US-PATENT-CLASS-137-101	c 07	N77-23106 *
US-PATENT-CLASS-128-782	c 52	N80-27072 *	US-PATENT-CLASS-136-255	c 33	N85-21492 *	US-PATENT-CLASS-137-104	c 37	N78-10467 *
US-PATENT-CLASS-128-782	c 39	N83-20280 *	US-PATENT-CLASS-136-255	c 44	N85-30475 *	US-PATENT-CLASS-137-110	c 54	N76-24900 *
US-PATENT-CLASS-128-782	c 52	N83-25346 *	US-PATENT-CLASS-136-255	c 76	N86-20150 *	US-PATENT-CLASS-137-116.3	c 37	N85-34403 *
US-PATENT-CLASS-128-784	c 52	N82-33996 *	US-PATENT-CLASS-136-255	c 33	N87-23879 *	US-PATENT-CLASS-137-13	c 15	N71-15967 *
US-PATENT-CLASS-128-80-E	c 54	N86-22112 *	US-PATENT-CLASS-136-256	c 44	N83-13579 *	US-PATENT-CLASS-137-13	c 15	N72-33477 *
US-PATENT-CLASS-128-80F	c 52	N81-25661 *	US-PATENT-CLASS-136-256	c 44	N83-14692 *	US-PATENT-CLASS-137-14	c 37	N79-33468 *
US-PATENT-CLASS-128-804	c 52	N82-33996 *	US-PATENT-CLASS-136-256	c 44	N85-20530 *	US-PATENT-CLASS-137-15.1	c 02	N74-20646 *
US-PATENT-CLASS-128-89R	c 52	N81-25662 *	US-PATENT-CLASS-136-256	c 44	N85-30475 *	US-PATENT-CLASS-137-15.1	c 07	N74-31270 *
US-PATENT-CLASS-128-903	c 52	N80-18691 *	US-PATENT-CLASS-136-258	c 44	N81-19558 *	US-PATENT-CLASS-137-15.1	c 07	N75-24736 *
US-PATENT-CLASS-128-92C	c 27	N78-17215 *	US-PATENT-CLASS-136-258	c 44	N81-29525 *	US-PATENT-CLASS-137-15.1	c 07	N77-18154 *
US-PATENT-CLASS-128-92G	c 27	N78-17215 *	US-PATENT-CLASS-136-259	c 44	N83-13579 *	US-PATENT-CLASS-137-15.1	c 07	N79-14096 *
US-PATENT-CLASS-129-16.7	c 08	N71-15908 *	US-PATENT-CLASS-136-259	c 44	N83-14692 *	US-PATENT-CLASS-137-15.1	c 05	N79-24976 *
US-PATENT-CLASS-13-20	c 11	N72-23215 *	US-PATENT-CLASS-136-261	c 44	N82-26777 *	US-PATENT-CLASS-137-15.1	c 07	N81-14999 *
US-PATENT-CLASS-13-20	c 12	N79-26075 *	US-PATENT-CLASS-136-261	c 44	N85-30475 *	US-PATENT-CLASS-137-15.2	c 02	N74-20646 *
US-PATENT-CLASS-13-22	c 12	N79-26075 *	US-PATENT-CLASS-136-261	c 44	N86-32875 *	US-PATENT-CLASS-137-15.2	c 35	N76-14431 *
US-PATENT-CLASS-13-24	c 12	N79-26075 *	US-PATENT-CLASS-136-262	c 44	N81-29525 *	US-PATENT-CLASS-137-154	c 15	N73-27406 *
US-PATENT-CLASS-13-26	c 33	N71-15625 *	US-PATENT-CLASS-136-262	c 76	N86-20150 *	US-PATENT-CLASS-137-154	c 31	N90-20254 *
US-PATENT-CLASS-13-26	c 14	N71-23267 *	US-PATENT-CLASS-136-28	c 03	N71-10608 *	US-PATENT-CLASS-137-177	c 20	N80-10278 *
US-PATENT-CLASS-13-31	c 11	N72-23215 *	US-PATENT-CLASS-136-290	c 44	N82-26777 *	US-PATENT-CLASS-137-197	c 15	N70-41646 *
US-PATENT-CLASS-13-31	c 31	N74-27900 *	US-PATENT-CLASS-136-291	c 44	N81-12542 *	US-PATENT-CLASS-137-197	c 35	N78-12390 *
US-PATENT-CLASS-13-35	c 33	N71-24145 *	US-PATENT-CLASS-136-30	c 44	N74-19693 *	US-PATENT-CLASS-137-1	c 12	N70-38997 *
US-PATENT-CLASS-134-137	c 37	N82-12441 *	US-PATENT-CLASS-136-30	c 44	N76-18643 *	US-PATENT-CLASS-137-1	c 15	N73-27406 *
US-PATENT-CLASS-134-166C	c 37	N87-17035 *	US-PATENT-CLASS-136-30	c 44	N76-29699 *	US-PATENT-CLASS-137-207	c 34	N77-30399 *
US-PATENT-CLASS-134-17	c 43	N81-26509 *	US-PATENT-CLASS-136-36	c 44	N74-19692 *	US-PATENT-CLASS-137-209	c 34	N77-30399 *
US-PATENT-CLASS-134-21	c 37	N76-18456 *	US-PATENT-CLASS-136-6LF	c 44	N76-18643 *	US-PATENT-CLASS-137-209	c 20	N80-10278 *
US-PATENT-CLASS-134-37	c 37	N76-18456 *	US-PATENT-CLASS-136-6	c 03	N71-26084 *	US-PATENT-CLASS-137-340	c 15	N70-34817 *
US-PATENT-CLASS-134-37	c 37	N85-21652 *	US-PATENT-CLASS-136-6	c 03	N72-15986 *	US-PATENT-CLASS-137-340	c 15	N70-35087 *
US-PATENT-CLASS-134-93	c 37	N87-17035 *	US-PATENT-CLASS-136-6	c 44	N82-24641 *	US-PATENT-CLASS-137-341	c 12	N71-17661 *
US-PATENT-CLASS-135-1	c 32	N70-36536 *	US-PATENT-CLASS-136-6	c 44	N82-24642 *	US-PATENT-CLASS-137-375	c 37	N80-23654 *
US-PATENT-CLASS-135-903	c 37	N87-17036 *	US-PATENT-CLASS-136-6	c 44	N82-24643 *	US-PATENT-CLASS-137-397	c 15	N73-26472 *
US-PATENT-CLASS-136-100R	c 03	N72-20034 *	US-PATENT-CLASS-136-6	c 44	N82-24644 *	US-PATENT-CLASS-137-469	c 05	N72-20097 *
US-PATENT-CLASS-136-114	c 44	N76-14601 *	US-PATENT-CLASS-136-79	c 03	N72-20032 *	US-PATENT-CLASS-137-484.2	c 34	N78-25351 *
US-PATENT-CLASS-136-132	c 03	N71-11053 *	US-PATENT-CLASS-136-81	c 03	N72-20032 *	US-PATENT-CLASS-137-487.5	c 14	N73-13418 *
US-PATENT-CLASS-136-132	c 03	N71-22974 *	US-PATENT-CLASS-136-83R	c 03	N72-20034 *	US-PATENT-CLASS-137-491	c 15	N69-21924 *
US-PATENT-CLASS-136-133	c 15	N69-24320 *	US-PATENT-CLASS-136-83R	c 44	N76-18641 *	US-PATENT-CLASS-137-493	c 52	N81-25660 *

US-PATENT-CLASS-137-495	c 15	N70-38603 *	US-PATENT-CLASS-141-198	c 25	N86-27431 *	US-PATENT-CLASS-149-19.4	c 28	N78-31255 *
US-PATENT-CLASS-137-496	c 15	N71-22706 *	US-PATENT-CLASS-141-23	c 15	N72-21465 *	US-PATENT-CLASS-149-19.4	c 20	N78-32179 *
US-PATENT-CLASS-137-501	c 34	N78-25351 *	US-PATENT-CLASS-141-258	c 14	N71-27005 *	US-PATENT-CLASS-149-19.4	c 28	N79-28342 *
US-PATENT-CLASS-137-505.12	c 14	N71-18625 *	US-PATENT-CLASS-141-45	c 29	N90-20236 *	US-PATENT-CLASS-149-19.8	c 28	N78-31255 *
US-PATENT-CLASS-137-505.16	c 34	N78-25351 *	US-PATENT-CLASS-141-4	c 35	N78-10428 *	US-PATENT-CLASS-149-19.92	c 28	N79-14228 *
US-PATENT-CLASS-137-505.25	c 37	N78-25426 *	US-PATENT-CLASS-141-5	c 33	N71-20834 *	US-PATENT-CLASS-149-19.9	c 28	N79-14228 *
US-PATENT-CLASS-137-505.38	c 37	N75-15050 *	US-PATENT-CLASS-141-91	c 12	N71-21089 *	US-PATENT-CLASS-149-19.9	c 28	N79-28342 *
US-PATENT-CLASS-137-505.42	c 37	N75-15050 *	US-PATENT-CLASS-141-93	c 31	N90-20254 *	US-PATENT-CLASS-149-19.9	c 28	N80-28536 *
US-PATENT-CLASS-137-515.3	c 37	N76-14463 *	US-PATENT-CLASS-148-DIG.26	c 76	N85-30922 *	US-PATENT-CLASS-149-19	c 27	N71-14090 *
US-PATENT-CLASS-137-516.27	c 15	N73-30459 *	US-PATENT-CLASS-148-1.5	c 26	N71-10607 *	US-PATENT-CLASS-149-19	c 27	N72-25699 *
US-PATENT-CLASS-137-535	c 15	N73-30459 *	US-PATENT-CLASS-148-1.5	c 26	N71-23654 *	US-PATENT-CLASS-149-19	c 27	N73-16764 *
US-PATENT-CLASS-137-535	c 05	N73-32014 *	US-PATENT-CLASS-148-1.5	c 76	N74-20329 *	US-PATENT-CLASS-149-1	c 23	N71-16212 *
US-PATENT-CLASS-137-538	c 05	N73-25125 *	US-PATENT-CLASS-148-1.5	c 44	N80-29835 *	US-PATENT-CLASS-149-1	c 06	N73-30097 *
US-PATENT-CLASS-137-539	c 15	N70-41811 *	US-PATENT-CLASS-148-1.5	c 33	N81-26360 *	US-PATENT-CLASS-149-1	c 28	N80-20402 *
US-PATENT-CLASS-137-549	c 37	N81-17433 *	US-PATENT-CLASS-148-1.5	c 44	N82-26777 *	US-PATENT-CLASS-149-1	c 28	N81-14103 *
US-PATENT-CLASS-137-550	c 37	N76-14463 *	US-PATENT-CLASS-148-1.5	c 44	N82-29709 *	US-PATENT-CLASS-149-20	c 27	N72-25699 *
US-PATENT-CLASS-137-554	c 09	N71-23191 *	US-PATENT-CLASS-148-1.5	c 44	N86-32875 *	US-PATENT-CLASS-149-20	c 28	N79-14228 *
US-PATENT-CLASS-137-556	c 34	N91-14563 *	US-PATENT-CLASS-148-11.5R	c 15	N73-13465 *	US-PATENT-CLASS-149-20	c 28	N79-28342 *
US-PATENT-CLASS-137-559	c 11	N73-12265 *	US-PATENT-CLASS-148-12.4	c 26	N79-22271 *	US-PATENT-CLASS-149-20	c 28	N80-28536 *
US-PATENT-CLASS-137-574	c 20	N80-10278 *	US-PATENT-CLASS-148-12.7A	c 26	N78-24333 *	US-PATENT-CLASS-149-2	c 12	N70-40124 *
US-PATENT-CLASS-137-576	c 20	N80-10278 *	US-PATENT-CLASS-148-12.7N	c 26	N77-20201 *	US-PATENT-CLASS-149-36	c 27	N72-25699 *
US-PATENT-CLASS-137-582	c 32	N71-16103 *	US-PATENT-CLASS-148-12F	c 26	N79-22271 *	US-PATENT-CLASS-149-36	c 27	N73-16764 *
US-PATENT-CLASS-137-582	c 32	N71-16106 *	US-PATENT-CLASS-148-121	c 76	N79-16678 *	US-PATENT-CLASS-149-36	c 06	N73-30097 *
US-PATENT-CLASS-137-582	c 15	N71-19569 *	US-PATENT-CLASS-148-125	c 26	N78-24333 *	US-PATENT-CLASS-149-36	c 24	N76-14203 *
US-PATENT-CLASS-137-582	c 15	N73-26472 *	US-PATENT-CLASS-148-126	c 17	N71-24142 *	US-PATENT-CLASS-149-37	c 44	N80-20808 *
US-PATENT-CLASS-137-590	c 20	N80-10278 *	US-PATENT-CLASS-148-126	c 18	N71-26153 *	US-PATENT-CLASS-149-42	c 20	N78-32179 *
US-PATENT-CLASS-137-594	c 12	N71-18615 *	US-PATENT-CLASS-148-126	c 18	N71-28729 *	US-PATENT-CLASS-149-43	c 20	N78-32179 *
US-PATENT-CLASS-137-604	c 15	N73-27406 *	US-PATENT-CLASS-148-126	c 26	N74-10521 *	US-PATENT-CLASS-149-44	c 20	N78-32179 *
US-PATENT-CLASS-137-606	c 37	N87-21332 *	US-PATENT-CLASS-148-127	c 26	N75-29236 *	US-PATENT-CLASS-149-60	c 28	N74-33209 *
US-PATENT-CLASS-137-608	c 15	N73-13462 *	US-PATENT-CLASS-148-13.1	c 76	N90-19884 *	US-PATENT-CLASS-149-76	c 28	N74-33209 *
US-PATENT-CLASS-137-614.06	c 37	N79-11402 *	US-PATENT-CLASS-148-131	c 26	N80-28492 *	US-PATENT-CLASS-149-76	c 20	N78-32179 *
US-PATENT-CLASS-137-614.11	c 37	N87-25573 *	US-PATENT-CLASS-148-13	c 14	N71-25892 *	US-PATENT-CLASS-149-83	c 20	N78-32179 *
US-PATENT-CLASS-137-614.18	c 37	N87-25573 *	US-PATENT-CLASS-148-13	c 76	N90-19884 *	US-PATENT-CLASS-149-85	c 20	N78-32179 *
US-PATENT-CLASS-137-614	c 15	N70-36492 *	US-PATENT-CLASS-148-149	c 09	N90-23415 *	US-PATENT-CLASS-149-88	c 28	N78-31255 *
US-PATENT-CLASS-137-615	c 12	N71-16031 *	US-PATENT-CLASS-148-159	c 26	N89-28621 *	US-PATENT-CLASS-149-92	c 27	N72-25699 *
US-PATENT-CLASS-137-624.11	c 35	N78-19466 *	US-PATENT-CLASS-148-16.6	c 26	N88-14179 *	US-PATENT-CLASS-149-92	c 28	N78-31255 *
US-PATENT-CLASS-137-624.14	c 03	N69-21469 *	US-PATENT-CLASS-148-162	c 26	N77-20201 *	US-PATENT-CLASS-149-93	c 28	N78-31255 *
US-PATENT-CLASS-137-625.38	c 37	N78-25426 *	US-PATENT-CLASS-148-162	c 26	N87-28647 *	US-PATENT-CLASS-15-143	c 15	N72-11390 *
US-PATENT-CLASS-137-625.3	c 37	N78-25426 *	US-PATENT-CLASS-148-173	c 76	N83-20789 *	US-PATENT-CLASS-15-210	c 15	N72-11390 *
US-PATENT-CLASS-137-625.4	c 37	N80-23654 *	US-PATENT-CLASS-148-174	c 26	N71-29156 *	US-PATENT-CLASS-15-230.16	c 37	N79-10422 *
US-PATENT-CLASS-137-625.5	c 15	N71-23051 *	US-PATENT-CLASS-148-174	c 44	N76-28635 *	US-PATENT-CLASS-15-230.17	c 37	N79-10422 *
US-PATENT-CLASS-137-625.69	c 15	N70-36908 *	US-PATENT-CLASS-148-174	c 44	N78-24609 *	US-PATENT-CLASS-15-406	c 37	N85-21652 *
US-PATENT-CLASS-137-628	c 37	N74-21065 *	US-PATENT-CLASS-148-174	c 76	N85-30922 *	US-PATENT-CLASS-15-415	c 14	N73-30395 *
US-PATENT-CLASS-137-637.05	c 37	N79-11402 *	US-PATENT-CLASS-148-174	c 76	N87-15882 *	US-PATENT-CLASS-150-11	c 37	N81-14317 *
US-PATENT-CLASS-137-81.5	c 12	N69-21466 *	US-PATENT-CLASS-148-175	c 25	N75-26043 *	US-PATENT-CLASS-150-1	c 52	N79-14749 *
US-PATENT-CLASS-137-81.5	c 15	N71-15609 *	US-PATENT-CLASS-148-175	c 76	N76-25049 *	US-PATENT-CLASS-151-41.76	c 37	N80-23653 *
US-PATENT-CLASS-137-81.5	c 12	N71-17578 *	US-PATENT-CLASS-148-175	c 44	N76-28635 *	US-PATENT-CLASS-152-11	c 31	N71-18611 *
US-PATENT-CLASS-137-81.5	c 12	N71-17579 *	US-PATENT-CLASS-148-175	c 44	N82-28780 *	US-PATENT-CLASS-152-225	c 15	N71-27091 *
US-PATENT-CLASS-137-81.5	c 10	N71-25899 *	US-PATENT-CLASS-148-175	c 76	N83-20789 *	US-PATENT-CLASS-152-250	c 15	N71-27091 *
US-PATENT-CLASS-137-81.5	c 12	N71-27332 *	US-PATENT-CLASS-148-175	c 76	N85-30922 *	US-PATENT-CLASS-152-330RF	c 37	N81-24443 *
US-PATENT-CLASS-137-81.5	c 12	N71-28741 *	US-PATENT-CLASS-148-175	c 76	N87-15882 *	US-PATENT-CLASS-152-353G	c 37	N81-24443 *
US-PATENT-CLASS-137-81.5	c 28	N72-2272 *	US-PATENT-CLASS-148-187	c 26	N72-17820 *	US-PATENT-CLASS-152-353R	c 37	N81-24443 *
US-PATENT-CLASS-137-81.5	c 15	N72-33477 *	US-PATENT-CLASS-148-187	c 14	N72-28438 *	US-PATENT-CLASS-152-379.4	c 37	N81-24443 *
US-PATENT-CLASS-137-81.5	c 15	N73-13462 *	US-PATENT-CLASS-148-187	c 33	N81-26360 *	US-PATENT-CLASS-156.307.7	c 27	N82-11206 *
US-PATENT-CLASS-137-81.5	c 28	N73-13773 *	US-PATENT-CLASS-148-187	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.113	c 76	N90-24169 *
US-PATENT-CLASS-137-819	c 33	N74-11050 *	US-PATENT-CLASS-148-188	c 24	N71-10560 *	US-PATENT-CLASS-156-DIG.6.8	c 76	N79-23798 *
US-PATENT-CLASS-137-81	c 05	N72-20097 *	US-PATENT-CLASS-148-188	c 09	N71-12513 *	US-PATENT-CLASS-156-DIG.62	c 76	N77-32919 *
US-PATENT-CLASS-137-81	c 14	N73-13418 *	US-PATENT-CLASS-148-188	c 44	N79-11468 *	US-PATENT-CLASS-156-DIG.62	c 35	N83-24828 *
US-PATENT-CLASS-137-833	c 33	N74-11050 *	US-PATENT-CLASS-148-188	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.62	c 33	N85-29142 *
US-PATENT-CLASS-137-838	c 71	N84-28568 *	US-PATENT-CLASS-148-189	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.62	c 76	N90-23242 *
US-PATENT-CLASS-137-840	c 33	N74-11050 *	US-PATENT-CLASS-148-190	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.62	c 76	N90-24169 *
US-PATENT-CLASS-137-886	c 37	N81-17433 *	US-PATENT-CLASS-148-20.3	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.64	c 76	N79-11920 *
US-PATENT-CLASS-137-887	c 37	N81-17433 *	US-PATENT-CLASS-148-2	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.64	c 44	N80-24741 *
US-PATENT-CLASS-137-99	c 37	N85-34403 *	US-PATENT-CLASS-148-2	c 26	N79-22271 *	US-PATENT-CLASS-156-DIG.64	c 76	N80-32245 *
US-PATENT-CLASS-138.8R	c 27	N81-15104 *	US-PATENT-CLASS-148-32	c 26	N78-18183 *	US-PATENT-CLASS-156-DIG.64	c 76	N84-35113 *
US-PATENT-CLASS-138-103	c 52	N80-16725 *	US-PATENT-CLASS-148-32.5	c 17	N72-22535 *	US-PATENT-CLASS-156-DIG.65	c 76	N79-11920 *
US-PATENT-CLASS-138-113	c 34	N75-12222 *	US-PATENT-CLASS-148-32.5	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.65	c 76	N85-30922 *
US-PATENT-CLASS-138-114	c 34	N75-12222 *	US-PATENT-CLASS-148-32.5	c 26	N77-32280 *	US-PATENT-CLASS-156-DIG.6	c 76	N83-35888 *
US-PATENT-CLASS-138-119	c 32	N70-41579 *	US-PATENT-CLASS-148-32.5	c 26	N78-18183 *	US-PATENT-CLASS-156-DIG.70	c 76	N88-24544 *
US-PATENT-CLASS-138-120	c 54	N86-28619 *	US-PATENT-CLASS-148-32	c 26	N77-32279 *	US-PATENT-CLASS-156-DIG.70	c 76	N88-24545 *
US-PATENT-CLASS-138-120	c 54	N86-28620 *	US-PATENT-CLASS-148-32	c 26	N80-23419 *	US-PATENT-CLASS-156-DIG.72	c 76	N88-24544 *
US-PATENT-CLASS-138-120	c 54	N86-29507 *	US-PATENT-CLASS-148-33.2	c 76	N85-30922 *	US-PATENT-CLASS-156-DIG.72	c 76	N88-24545 *
US-PATENT-CLASS-138-133	c 52	N80-16725 *	US-PATENT-CLASS-148-410	c 26	N87-28647 *	US-PATENT-CLASS-156-DIG.72	c 76	N90-23242 *
US-PATENT-CLASS-138-141	c 24	N90-25196 *	US-PATENT-CLASS-148-416	c 26	N89-28621 *	US-PATENT-CLASS-156-DIG.73	c 76	N83-35888 *
US-PATENT-CLASS-138-148	c 34	N75-12222 *	US-PATENT-CLASS-148-417	c 26	N89-28621 *	US-PATENT-CLASS-156-DIG.73	c 27	N83-36220 *
US-PATENT-CLASS-138-149	c 24	N90-25196 *	US-PATENT-CLASS-148-428	c 26	N82-31505 *	US-PATENT-CLASS-156-DIG.82	c 76	N88-24544 *
US-PATENT-CLASS-138-153	c 24	N90-25196 *	US-PATENT-CLASS-148-429	c 26	N87-14482 *	US-PATENT-CLASS-156-DIG.82	c 76	N88-24545 *
US-PATENT-CLASS-138-178	c 15	N72-20445 *	US-PATENT-CLASS-148-4	c 09	N90-23415 *	US-PATENT-CLASS-156-DIG.84	c 76	N88-24545 *
US-PATENT-CLASS-138-33	c 52	N80-16725 *	US-PATENT-CLASS-148-6.11	c 15	N71-24875 *	US-PATENT-CLASS-156-DIG.88	c 76	N79-11920 *
US-PATENT-CLASS-138-38	c 02	N88-14071 *	US-PATENT-CLASS-148-6.16	c 18	N71-23047 *	US-PATENT-CLASS-156-DIG.88	c 76	N80-32245 *
US-PATENT-CLASS-138-38	c 34	N88-29133 *	US-PATENT-CLASS-148-6.20	c 17	N71-23828 *	US-PATENT-CLASS-156-DIG.88	c 76	N84-35113 *
US-PATENT-CLASS-138-42	c 15	N71-15608 *	US-PATENT-CLASS-148-6.3	c 17	N71-33408 *	US-PATENT-CLASS-156-DIG.88	c 76	N85-30922 *
US-PATENT-CLASS-138-42	c 44	N84-14583 *	US-PATENT-CLASS-148-6.3	c 44	N79-18444 *	US-PATENT-CLASS-156-DIG.88	c 76	N86-28760 *
US-PATENT-CLASS-138-43	c 15	N71-19213 *	US-PATENT-CLASS-148-6.3	c 26	N87-25455 *	US-PATENT-CLASS-156-DIG.89	c 27	N83-36220 *
US-PATENT-CLASS-138-45	c 15	N71-18580 *	US-PATENT-CLASS-148-6	c 18	N71-29040 *	US-PATENT-CLASS-156-DIG.89	c 76	N88-24545 *
US-PATENT-CLASS-138-45	c 15	N73-13462 *	US-PATENT-CLASS-148-6	c 76	N79-16678 *	US-PATENT-CLASS-156-DIG.92	c 76	N88-24545 *
US-PATENT-CLASS-138-46	c 12	N71-18615 *	US-PATENT-CLASS-148-902	c 09	N90-23415 *	US-PATENT-CLASS-156-DIG.96	c 76	N80-32244 *
US-PATENT-CLASS-138-4	c 15	N71-18580 *	US-PATENT-CLASS-148-903	c 09	N90-23415 *	US-PATENT-CLASS-156-DIG.96	c 33	N81-19389 *
US-PATENT-CLASS-138-96R	c 37	N79-22474 *	US-PATENT-CLASS-149-105	c 28	N78-31255 *	US-PATENT-CLASS-156-DIG.98	c 76	N84-35113 *
US-PATENT-CLASS-138-97	c 37	N86-32736 *	US-PATENT-CLASS-149-108.4	c 28	N80-23471 *	US-PATENT-CLASS-156-104	c 44	N80-18550 *
US-PATENT-CLASS-139-425R	c 28	N72-11708 *	US-PATENT-CLASS-149-108.4	c 28	N81-15119 *	US-PATENT-CLASS-156-153	c 24	N90-25197 *
US-PATENT-CLASS-14-71.5	c 18	N91-14374 *	US-PATENT-CLASS-149-109	c 27	N70-41897 *	US-PATENT-CLASS-156-154	c 24	N78-17150 *
US-PATENT-CLASS-140-105	c 15	N72-12408 *	US-PATENT-CLASS-149-111	c 28	N78-31255 *	US-PATENT-CLASS-156-154	c 27	N81-14077 *
US-PATENT-CLASS-140-123	c 15	N71-15918 *	US-PATENT-CLASS-149-15	c 44	N80-20808 *	US-PATENT-CLASS-156-157	c 33	N82-26571 *
US-PATENT-CLASS-140-124	c 15	N71-10809 *	US-PATENT-CLASS-149-17	c 28	N74-33209 *	US-PATENT-CLASS-156-160	c 27	N81-14077 *
US-PATENT-CLASS-141-197	c 35	N78-10428 *	US-PATENT-CLASS-149-19.2	c 28	N80-28536 *	US-PATENT-CLASS-156-161	c 24	N81-29163 *

US-PATENT-CLASS-156-163	c 27	N81-14077 *	US-PATENT-CLASS-156-320	c 15	N72-11392 *	US-PATENT-CLASS-156-646	c 31	N87-21160 *
US-PATENT-CLASS-156-163	c 74	N87-28416 *	US-PATENT-CLASS-156-323	c 27	N81-14077 *	US-PATENT-CLASS-156-647	c 33	N81-26360 *
US-PATENT-CLASS-156-165	c 24	N81-29163 *	US-PATENT-CLASS-156-329	c 27	N82-29456 *	US-PATENT-CLASS-156-648	c 33	N81-26360 *
US-PATENT-CLASS-156-166	c 74	N85-29749 *	US-PATENT-CLASS-156-330	c 24	N81-14000 *	US-PATENT-CLASS-156-649	c 33	N81-26360 *
US-PATENT-CLASS-156-166	c 74	N75-12732 *	US-PATENT-CLASS-156-331.5	c 27	N82-11206 *	US-PATENT-CLASS-156-654	c 76	N83-20789 *
US-PATENT-CLASS-156-172	c 15	N71-17651 *	US-PATENT-CLASS-156-331.5	c 27	N86-20561 *	US-PATENT-CLASS-156-654	c 35	N84-22930 *
US-PATENT-CLASS-156-172	c 76	N79-21910 *	US-PATENT-CLASS-156-331	c 37	N74-18126 *	US-PATENT-CLASS-156-659.1	c 31	N87-21160 *
US-PATENT-CLASS-156-18	c 26	N73-26752 *	US-PATENT-CLASS-156-331	c 27	N78-17205 *	US-PATENT-CLASS-156-661.1	c 31	N87-21160 *
US-PATENT-CLASS-156-18	c 74	N75-12732 *	US-PATENT-CLASS-156-331	c 24	N79-16915 *	US-PATENT-CLASS-156-662	c 76	N83-20789 *
US-PATENT-CLASS-156-191	c 52	N84-28389 *	US-PATENT-CLASS-156-331	c 27	N81-14077 *	US-PATENT-CLASS-156-663	c 27	N77-32308 *
US-PATENT-CLASS-156-212	c 03	N71-26726 *	US-PATENT-CLASS-156-338	c 27	N82-24340 *	US-PATENT-CLASS-156-668	c 52	N84-23095 *
US-PATENT-CLASS-156-212	c 24	N80-26388 *	US-PATENT-CLASS-156-344	c 28	N81-14103 *	US-PATENT-CLASS-156-66	c 15	N72-11392 *
US-PATENT-CLASS-156-212	c 27	N81-14077 *	US-PATENT-CLASS-156-344	c 31	N83-34073 *	US-PATENT-CLASS-156-71	c 33	N82-26571 *
US-PATENT-CLASS-156-213	c 24	N80-26388 *	US-PATENT-CLASS-156-344	c 31	N90-19427 *	US-PATENT-CLASS-156-71	c 35	N84-12443 *
US-PATENT-CLASS-156-215	c 35	N84-12443 *	US-PATENT-CLASS-156-344	c 24	N90-25197 *	US-PATENT-CLASS-156-74	c 24	N81-29163 *
US-PATENT-CLASS-156-218	c 54	N74-32546 *	US-PATENT-CLASS-156-345	c 15	N70-42033 *	US-PATENT-CLASS-156-7	c 74	N75-12732 *
US-PATENT-CLASS-156-229	c 24	N77-28225 *	US-PATENT-CLASS-156-345	c 31	N87-21160 *	US-PATENT-CLASS-156-81	c 27	N84-22748 *
US-PATENT-CLASS-156-229	c 74	N87-28416 *	US-PATENT-CLASS-156-379.7	c 33	N82-26571 *	US-PATENT-CLASS-156-84	c 15	N72-16330 *
US-PATENT-CLASS-156-230	c 35	N84-12443 *	US-PATENT-CLASS-156-380.2	c 31	N85-29083 *	US-PATENT-CLASS-156-84	c 37	N82-24491 *
US-PATENT-CLASS-156-233	c 35	N88-30108 *	US-PATENT-CLASS-156-382	c 37	N76-21554 *	US-PATENT-CLASS-156-85	c 37	N82-24491 *
US-PATENT-CLASS-156-235	c 35	N84-12443 *	US-PATENT-CLASS-156-382	c 52	N84-28389 *	US-PATENT-CLASS-156-86	c 15	N72-16330 *
US-PATENT-CLASS-156-242	c 15	N69-24322 *	US-PATENT-CLASS-156-382	c 74	N87-28416 *	US-PATENT-CLASS-156-86	c 37	N82-24491 *
US-PATENT-CLASS-156-242	c 37	N76-24575 *	US-PATENT-CLASS-156-391	c 35	N84-12443 *	US-PATENT-CLASS-156-87	c 37	N87-23981 *
US-PATENT-CLASS-156-242	c 24	N81-33235 *	US-PATENT-CLASS-156-3	c 17	N71-16044 *	US-PATENT-CLASS-156-89	c 37	N75-15992 *
US-PATENT-CLASS-156-245	c 31	N74-18089 *	US-PATENT-CLASS-156-3	c 15	N71-21404 *	US-PATENT-CLASS-156-89	c 24	N79-25143 *
US-PATENT-CLASS-156-245	c 24	N78-17149 *	US-PATENT-CLASS-156-3	c 15	N71-24047 *	US-PATENT-CLASS-156-89	c 27	N84-22748 *
US-PATENT-CLASS-156-245	c 24	N81-33235 *	US-PATENT-CLASS-156-3	c 06	N72-21094 *	US-PATENT-CLASS-156-904	c 31	N87-21160 *
US-PATENT-CLASS-156-247	c 31	N74-18089 *	US-PATENT-CLASS-156-423	c 35	N84-12443 *	US-PATENT-CLASS-156-905	c 35	N84-22930 *
US-PATENT-CLASS-156-247	c 35	N88-30108 *	US-PATENT-CLASS-156-494	c 74	N87-28416 *	US-PATENT-CLASS-156-94	c 32	N74-27612 *
US-PATENT-CLASS-156-249	c 24	N90-25197 *	US-PATENT-CLASS-156-499	c 27	N84-22748 *	US-PATENT-CLASS-156-94	c 24	N74-30001 *
US-PATENT-CLASS-156-250	c 03	N72-25019 *	US-PATENT-CLASS-156-510	c 15	N71-17887 *	US-PATENT-CLASS-156-99	c 37	N75-15992 *
US-PATENT-CLASS-156-252	c 24	N81-33235 *	US-PATENT-CLASS-156-510	c 03	N72-25019 *	US-PATENT-CLASS-159-3	c 25	N88-23846 *
US-PATENT-CLASS-156-264	c 05	N72-25121 *	US-PATENT-CLASS-156-52	c 31	N79-21226 *	US-PATENT-CLASS-159-48.2	c 25	N88-23846 *
US-PATENT-CLASS-156-264	c 24	N78-17150 *	US-PATENT-CLASS-156-540	c 35	N84-12443 *	US-PATENT-CLASS-159-900	c 25	N88-23846 *
US-PATENT-CLASS-156-264	c 24	N81-33235 *	US-PATENT-CLASS-156-545	c 15	N71-24164 *	US-PATENT-CLASS-16-242	c 31	N86-19479 *
US-PATENT-CLASS-156-264	c 31	N83-34073 *	US-PATENT-CLASS-156-556	c 37	N76-21554 *	US-PATENT-CLASS-16-292	c 18	N88-23827 *
US-PATENT-CLASS-156-267	c 27	N81-14077 *	US-PATENT-CLASS-156-59	c 31	N83-34073 *	US-PATENT-CLASS-16-294	c 37	N86-19605 *
US-PATENT-CLASS-156-272.4	c 31	N85-29083 *	US-PATENT-CLASS-156-600	c 27	N83-36220 *	US-PATENT-CLASS-16-294	c 18	N87-14373 *
US-PATENT-CLASS-156-272.4	c 35	N88-30108 *	US-PATENT-CLASS-156-600	c 76	N90-23242 *	US-PATENT-CLASS-16-297	c 18	N88-23827 *
US-PATENT-CLASS-156-272.4	c 27	N80-32516 *	US-PATENT-CLASS-156-600	c 76	N90-24169 *	US-PATENT-CLASS-16-326	c 18	N88-23827 *
US-PATENT-CLASS-156-272	c 33	N82-26571 *	US-PATENT-CLASS-156-601	c 76	N77-32919 *	US-PATENT-CLASS-16-332	c 18	N88-23827 *
US-PATENT-CLASS-156-273.7	c 27	N85-20125 *	US-PATENT-CLASS-156-601	c 76	N80-32245 *	US-PATENT-CLASS-16-345	c 18	N88-23827 *
US-PATENT-CLASS-156-273.9	c 31	N85-29083 *	US-PATENT-CLASS-156-601	c 76	N90-24169 *	US-PATENT-CLASS-16-347	c 18	N88-23827 *
US-PATENT-CLASS-156-274.8	c 35	N88-30108 *	US-PATENT-CLASS-156-602	c 76	N82-30105 *	US-PATENT-CLASS-16-349	c 18	N88-23827 *
US-PATENT-CLASS-156-275.5	c 35	N88-30108 *	US-PATENT-CLASS-156-605	c 44	N80-24741 *	US-PATENT-CLASS-16-370	c 18	N87-14373 *
US-PATENT-CLASS-156-278	c 44	N80-18550 *	US-PATENT-CLASS-156-607	c 76	N87-23286 *	US-PATENT-CLASS-16-390	c 31	N86-19479 *
US-PATENT-CLASS-156-285	c 15	N71-23052 *	US-PATENT-CLASS-156-607	c 76	N88-24544 *	US-PATENT-CLASS-160-23R	c 37	N87-17036 *
US-PATENT-CLASS-156-285	c 18	N73-30532 *	US-PATENT-CLASS-156-607	c 76	N90-24169 *	US-PATENT-CLASS-160-265	c 37	N87-17036 *
US-PATENT-CLASS-156-285	c 31	N74-18089 *	US-PATENT-CLASS-156-608	c 76	N79-11920 *	US-PATENT-CLASS-161-115	c 18	N70-41583 *
US-PATENT-CLASS-156-285	c 24	N74-27035 *	US-PATENT-CLASS-156-608	c 33	N81-19389 *	US-PATENT-CLASS-161-116	c 37	N74-23064 *
US-PATENT-CLASS-156-285	c 24	N78-17149 *	US-PATENT-CLASS-156-608	c 76	N82-30105 *	US-PATENT-CLASS-161-127	c 18	N72-25540 *
US-PATENT-CLASS-156-285	c 24	N78-17150 *	US-PATENT-CLASS-156-608	c 76	N83-20789 *	US-PATENT-CLASS-161-127	c 18	N72-25541 *
US-PATENT-CLASS-156-285	c 44	N80-18550 *	US-PATENT-CLASS-156-608	c 76	N83-35888 *	US-PATENT-CLASS-161-161	c 33	N71-25351 *
US-PATENT-CLASS-156-285	c 24	N80-26388 *	US-PATENT-CLASS-156-608	c 76	N84-35113 *	US-PATENT-CLASS-161-182	c 15	N69-39735 *
US-PATENT-CLASS-156-285	c 24	N81-29163 *	US-PATENT-CLASS-156-608	c 76	N90-23242 *	US-PATENT-CLASS-161-182	c 37	N74-18126 *
US-PATENT-CLASS-156-285	c 24	N81-33235 *	US-PATENT-CLASS-156-608	c 76	N91-15898 *	US-PATENT-CLASS-161-189	c 23	N71-15978 *
US-PATENT-CLASS-156-285	c 52	N84-28389 *	US-PATENT-CLASS-156-60	c 15	N71-22713 *	US-PATENT-CLASS-161-192	c 37	N74-18126 *
US-PATENT-CLASS-156-286	c 37	N76-21554 *	US-PATENT-CLASS-156-610	c 76	N76-25049 *	US-PATENT-CLASS-161-196	c 37	N74-21063 *
US-PATENT-CLASS-156-286	c 37	N76-24575 *	US-PATENT-CLASS-156-610	c 27	N83-36220 *	US-PATENT-CLASS-161-214	c 06	N73-27980 *
US-PATENT-CLASS-156-286	c 24	N78-17150 *	US-PATENT-CLASS-156-610	c 76	N86-28760 *	US-PATENT-CLASS-161-227	c 06	N73-27980 *
US-PATENT-CLASS-156-286	c 37	N87-23981 *	US-PATENT-CLASS-156-612	c 76	N76-25049 *	US-PATENT-CLASS-161-42	c 37	N74-18126 *
US-PATENT-CLASS-156-286	c 74	N87-28416 *	US-PATENT-CLASS-156-612	c 44	N76-26635 *	US-PATENT-CLASS-161-43	c 37	N74-18126 *
US-PATENT-CLASS-156-289	c 24	N78-17149 *	US-PATENT-CLASS-156-612	c 76	N85-30922 *	US-PATENT-CLASS-161-67	c 33	N72-17947 *
US-PATENT-CLASS-156-289	c 24	N78-17150 *	US-PATENT-CLASS-156-613	c 76	N76-25049 *	US-PATENT-CLASS-161-68	c 18	N71-21651 *
US-PATENT-CLASS-156-289	c 52	N84-28389 *	US-PATENT-CLASS-156-613	c 44	N76-26635 *	US-PATENT-CLASS-161-68	c 18	N72-25540 *
US-PATENT-CLASS-156-289	c 37	N87-23981 *	US-PATENT-CLASS-156-614	c 44	N76-26635 *	US-PATENT-CLASS-161-69	c 18	N72-25541 *
US-PATENT-CLASS-156-289	c 24	N90-25197 *	US-PATENT-CLASS-156-616.41	c 76	N90-20896 *	US-PATENT-CLASS-161-7	c 33	N71-24858 *
US-PATENT-CLASS-156-290	c 24	N81-33235 *	US-PATENT-CLASS-156-616.4	c 76	N90-20896 *	US-PATENT-CLASS-161-7	c 18	N72-25540 *
US-PATENT-CLASS-156-292	c 27	N80-32516 *	US-PATENT-CLASS-156-617.1	c 76	N91-15898 *	US-PATENT-CLASS-161-7	c 18	N72-25541 *
US-PATENT-CLASS-156-292	c 24	N81-17170 *	US-PATENT-CLASS-156-617-H	c 76	N87-23286 *	US-PATENT-CLASS-161-89	c 17	N71-28747 *
US-PATENT-CLASS-156-294	c 37	N81-14317 *	US-PATENT-CLASS-156-617-SP	c 76	N84-35113 *	US-PATENT-CLASS-161-92	c 37	N75-26371 *
US-PATENT-CLASS-156-294	c 24	N81-29163 *	US-PATENT-CLASS-156-617-SP	c 76	N87-23286 *	US-PATENT-CLASS-161-93	c 18	N73-12604 *
US-PATENT-CLASS-156-294	c 35	N84-12443 *	US-PATENT-CLASS-156-617-V	c 76	N84-35113 *	US-PATENT-CLASS-161-93	c 37	N74-18126 *
US-PATENT-CLASS-156-295	c 27	N81-14077 *	US-PATENT-CLASS-156-617SP	c 76	N79-11920 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *
US-PATENT-CLASS-156-297	c 27	N89-12741 *	US-PATENT-CLASS-156-617SP	c 76	N79-23798 *	US-PATENT-CLASS-162-102	c 24	N76-14204 *
US-PATENT-CLASS-156-298	c 37	N87-23981 *	US-PATENT-CLASS-156-617SP	c 44	N80-24741 *	US-PATENT-CLASS-162-14	c 85	N79-17747 *
US-PATENT-CLASS-156-299	c 27	N89-12741 *	US-PATENT-CLASS-156-617SP	c 76	N80-32245 *	US-PATENT-CLASS-162-153	c 24	N76-14204 *
US-PATENT-CLASS-156-300	c 24	N78-17150 *	US-PATENT-CLASS-156-619	c 76	N77-32919 *	US-PATENT-CLASS-162-222	c 24	N76-14204 *
US-PATENT-CLASS-156-303	c 44	N80-18550 *	US-PATENT-CLASS-156-620.1	c 76	N91-15898 *	US-PATENT-CLASS-162-228	c 24	N76-14204 *
US-PATENT-CLASS-156-304.3	c 27	N84-22748 *	US-PATENT-CLASS-156-620.76	c 76	N88-24545 *	US-PATENT-CLASS-162-29	c 85	N79-17747 *
US-PATENT-CLASS-156-304.6	c 27	N84-22748 *	US-PATENT-CLASS-156-620	c 76	N77-32919 *	US-PATENT-CLASS-164-105	c 20	N79-21123 *
US-PATENT-CLASS-156-306	c 24	N78-17150 *	US-PATENT-CLASS-156-621	c 76	N88-14835 *	US-PATENT-CLASS-164-113	c 31	N90-21216 *
US-PATENT-CLASS-156-307.1	c 37	N87-23981 *	US-PATENT-CLASS-156-621	c 76	N88-24544 *	US-PATENT-CLASS-164-119	c 24	N84-16262 *
US-PATENT-CLASS-156-307.3	c 27	N82-11206 *	US-PATENT-CLASS-156-622	c 76	N88-14835 *	US-PATENT-CLASS-164-122.1	c 26	N91-14462 *
US-PATENT-CLASS-156-307.3	c 37	N87-23981 *	US-PATENT-CLASS-156-623Q	c 76	N85-29800 *	US-PATENT-CLASS-164-132	c 37	N76-23570 *
US-PATENT-CLASS-156-307.5	c 27	N82-11206 *	US-PATENT-CLASS-156-624	c 76	N83-20789 *	US-PATENT-CLASS-164-284	c 31	N90-21216 *
US-PATENT-CLASS-156-307.7	c 37	N87-23981 *	US-PATENT-CLASS-156-624	c 76	N86-28760 *	US-PATENT-CLASS-164-331.12	c 27	N83-34041 *
US-PATENT-CLASS-156-307.7	c 35	N88-30108 *	US-PATENT-CLASS-156-624	c 76	N88-14835 *	US-PATENT-CLASS-164-338.1	c 26	N91-14462 *
US-PATENT-CLASS-156-307	c 27	N86-20561 *	US-PATENT-CLASS-156-624	c 76	N88-24544 *	US-PATENT-CLASS-164-60	c 24	N77-27187 *
US-PATENT-CLASS-156-308	c 05	N72-25121 *	US-PATENT-CLASS-156-630	c 35	N84-22930 *	US-PATENT-CLASS-165-DIG.6	c 34	N84-22930 *
US-PATENT-CLASS-156-309.9	c 27	N86-20561 *	US-PATENT-CLASS-156-633	c 44	N78-25529 *	US-PATENT-CLASS-165-104.14	c 05	N81-26114 *
US-PATENT-CLASS-156-309	c 31	N74-18089 *	US-PATENT-CLASS-156-635	c 76	N83-20789 *	US-PATENT-CLASS-165-104.14	c 34	N85-29179 *
US-PATENT-CLASS-156-309	c 27	N78-17205 *	US-PATENT-CLASS-156-643	c 52	N84-23095 *	US-PATENT-CLASS-165-104.14	c 34	N86-27593 *
US-PATENT-CLASS-156-311	c 24	N78-17150 *	US-PATENT-CLASS-156-643	c 31	N87-21160 *	US-PATENT-CLASS-165-104.14	c 34	N87-22950 *
US-PATENT-CLASS-156-312	c 44	N80-18550 *	US-PATENT-CLASS-156-644	c 52	N84-23095 *	US-PATENT-CLASS-165-104.14	c 34	N88-23958 *
US-PATENT-CLASS-156-315	c 27	N82-24340 *	US-PATENT-CLASS-156-645	c 27	N77-32308 *	US-PATENT-CLASS-165-104.14	c 34	N89-14392 *

US-PATENT-CLASS-165-104.25	c 34	N87-22950 *	US-PATENT-CLASS-165-34	c 34	N87-22950 *	US-PATENT-CLASS-175-310	c 15	N70-42034 *
US-PATENT-CLASS-165-104.26	c 74	N83-19596 *	US-PATENT-CLASS-165-3	c 03	N72-28025 *	US-PATENT-CLASS-175-323	c 14	N69-21923 *
US-PATENT-CLASS-165-104.26	c 34	N83-35307 *	US-PATENT-CLASS-165-41	c 34	N84-14461 *	US-PATENT-CLASS-175-45	c 35	N84-33768 *
US-PATENT-CLASS-165-104.26	c 34	N85-21568 *	US-PATENT-CLASS-165-41	c 34	N86-27593 *	US-PATENT-CLASS-175-78	c 46	N80-10709 *
US-PATENT-CLASS-165-104.26	c 34	N85-29180 *	US-PATENT-CLASS-165-41	c 34	N88-23958 *	US-PATENT-CLASS-176-11	c 24	N72-33681 *
US-PATENT-CLASS-165-104.26	c 34	N86-27593 *	US-PATENT-CLASS-165-41	c 35	N89-12048 *	US-PATENT-CLASS-176-11	c 25	N76-27383 *
US-PATENT-CLASS-165-104.26	c 34	N87-22950 *	US-PATENT-CLASS-165-41	c 34	N90-20323 *	US-PATENT-CLASS-176-11	c 25	N76-29379 *
US-PATENT-CLASS-165-104.26	c 34	N88-29133 *	US-PATENT-CLASS-165-41	c 27	N90-23541 *	US-PATENT-CLASS-176-11	c 25	N78-27226 *
US-PATENT-CLASS-165-104.26	c 34	N89-14392 *	US-PATENT-CLASS-165-41	c 31	N90-23587 *	US-PATENT-CLASS-176-14	c 25	N76-29379 *
US-PATENT-CLASS-165-104.26	c 27	N90-23541 *	US-PATENT-CLASS-165-41	c 31	N91-15424 *	US-PATENT-CLASS-176-169	c 22	N73-32528 *
US-PATENT-CLASS-165-104.26	c 31	N90-23587 *	US-PATENT-CLASS-165-44	c 15	N71-26611 *	US-PATENT-CLASS-176-16	c 25	N76-27383 *
US-PATENT-CLASS-165-104.31	c 31	N91-15424 *	US-PATENT-CLASS-165-46	c 05	N71-19439 *	US-PATENT-CLASS-176-16	c 25	N76-29379 *
US-PATENT-CLASS-165-104	c 33	N71-25353 *	US-PATENT-CLASS-165-46	c 05	N71-24147 *	US-PATENT-CLASS-176-16	c 25	N78-27226 *
US-PATENT-CLASS-165-104	c 34	N90-20323 *	US-PATENT-CLASS-165-46	c 05	N73-20137 *	US-PATENT-CLASS-176-22	c 73	N78-28913 *
US-PATENT-CLASS-165-105	c 09	N71-24807 *	US-PATENT-CLASS-165-46	c 05	N73-26071 *	US-PATENT-CLASS-176-33	c 73	N78-28913 *
US-PATENT-CLASS-165-105	c 33	N71-25353 *	US-PATENT-CLASS-165-46	c 54	N82-29002 *	US-PATENT-CLASS-176-39	c 73	N78-19920 *
US-PATENT-CLASS-165-105	c 33	N72-17948 *	US-PATENT-CLASS-165-47	c 33	N90-21999 *	US-PATENT-CLASS-176-39	c 73	N78-28913 *
US-PATENT-CLASS-165-105	c 31	N73-30829 *	US-PATENT-CLASS-165-47	c 31	N71-29052 *	US-PATENT-CLASS-176-3	c 75	N75-13625 *
US-PATENT-CLASS-165-105	c 28	N73-32606 *	US-PATENT-CLASS-165-47	c 31	N73-30829 *	US-PATENT-CLASS-176-45	c 22	N71-28759 *
US-PATENT-CLASS-165-105	c 34	N74-18552 *	US-PATENT-CLASS-165-47	c 34	N75-12222 *	US-PATENT-CLASS-176-86G	c 22	N72-20597 *
US-PATENT-CLASS-165-105	c 34	N75-12222 *	US-PATENT-CLASS-165-48R	c 35	N85-29214 *	US-PATENT-CLASS-177-147	c 35	N85-20294 *
US-PATENT-CLASS-165-105	c 44	N75-32581 *	US-PATENT-CLASS-165-58	c 27	N83-36220 *	US-PATENT-CLASS-177-1	c 35	N77-19385 *
US-PATENT-CLASS-165-105	c 44	N76-16612 *	US-PATENT-CLASS-165-61	c 34	N83-34221 *	US-PATENT-CLASS-177-200	c 35	N74-26945 *
US-PATENT-CLASS-165-105	c 34	N76-17317 *	US-PATENT-CLASS-165-61	c 35	N85-29214 *	US-PATENT-CLASS-177-208	c 35	N77-19385 *
US-PATENT-CLASS-165-105	c 34	N76-27515 *	US-PATENT-CLASS-165-61	c 35	N86-20750 *	US-PATENT-CLASS-177-210	c 14	N71-10773 *
US-PATENT-CLASS-165-105	c 34	N77-32413 *	US-PATENT-CLASS-165-61	c 31	N89-12785 *	US-PATENT-CLASS-177-211	c 35	N74-26945 *
US-PATENT-CLASS-165-105	c 25	N78-10224 *	US-PATENT-CLASS-165-64	c 35	N85-29214 *	US-PATENT-CLASS-177-246	c 35	N74-26945 *
US-PATENT-CLASS-165-105	c 34	N78-17336 *	US-PATENT-CLASS-165-65	c 35	N86-20750 *	US-PATENT-CLASS-177-260	c 35	N85-20294 *
US-PATENT-CLASS-165-105	c 34	N78-17337 *	US-PATENT-CLASS-165-76	c 34	N83-28356 *	US-PATENT-CLASS-178-DIG.12	c 07	N72-12081 *
US-PATENT-CLASS-165-105	c 44	N79-18443 *	US-PATENT-CLASS-165-76	c 37	N86-32736 *	US-PATENT-CLASS-178-DIG.12	c 32	N75-21485 *
US-PATENT-CLASS-165-105	c 37	N79-28549 *	US-PATENT-CLASS-165-78	c 34	N90-21999 *	US-PATENT-CLASS-178-DIG.1	c 36	N74-20009 *
US-PATENT-CLASS-165-105	c 34	N79-31523 *	US-PATENT-CLASS-165-80E	c 34	N83-34221 *	US-PATENT-CLASS-178-DIG.1	c 33	N75-30431 *
US-PATENT-CLASS-165-105	c 35	N81-14287 *	US-PATENT-CLASS-165-81	c 34	N88-29132 *	US-PATENT-CLASS-178-DIG.1	c 45	N76-17656 *
US-PATENT-CLASS-165-106	c 33	N73-32818 *	US-PATENT-CLASS-165-81	c 25	N90-11824 *	US-PATENT-CLASS-178-DIG.20	c 18	N76-14186 *
US-PATENT-CLASS-165-106	c 34	N76-17317 *	US-PATENT-CLASS-165-83	c 25	N90-11824 *	US-PATENT-CLASS-178-DIG.20	c 23	N72-27728 *
US-PATENT-CLASS-165-107	c 09	N71-24807 *	US-PATENT-CLASS-165-86	c 15	N71-26611 *	US-PATENT-CLASS-178-DIG.20	c 35	N75-19613 *
US-PATENT-CLASS-165-107	c 44	N77-32581 *	US-PATENT-CLASS-165-86	c 33	N71-29046 *	US-PATENT-CLASS-178-DIG.21	c 16	N72-13437 *
US-PATENT-CLASS-165-109	c 35	N74-15093 *	US-PATENT-CLASS-165-904	c 35	N89-12048 *	US-PATENT-CLASS-178-DIG.23	c 07	N73-30115 *
US-PATENT-CLASS-165-110	c 44	N76-31667 *	US-PATENT-CLASS-165-904	c 31	N91-15424 *	US-PATENT-CLASS-178-DIG.25	c 74	N75-25706 *
US-PATENT-CLASS-165-110	c 77	N75-20139 *	US-PATENT-CLASS-165-905	c 34	N88-29133 *	US-PATENT-CLASS-178-DIG.28	c 08	N72-22164 *
US-PATENT-CLASS-165-111	c 77	N75-20139 *	US-PATENT-CLASS-165-905	c 34	N90-20323 *	US-PATENT-CLASS-178-DIG.29	c 35	N75-25123 *
US-PATENT-CLASS-165-12	c 33	N71-24276 *	US-PATENT-CLASS-165-905	c 27	N90-23541 *	US-PATENT-CLASS-178-DIG.32	c 71	N74-21014 *
US-PATENT-CLASS-165-12	c 34	N83-34221 *	US-PATENT-CLASS-165-96	c 33	N70-36847 *	US-PATENT-CLASS-178-DIG.35	c 09	N76-24280 *
US-PATENT-CLASS-165-133	c 33	N71-16277 *	US-PATENT-CLASS-165-96	c 33	N71-22890 *	US-PATENT-CLASS-178-DIG.36	c 08	N72-22164 *
US-PATENT-CLASS-165-133	c 33	N71-25353 *	US-PATENT-CLASS-165-96	c 31	N73-30829 *	US-PATENT-CLASS-178-DIG.6	c 10	N73-13235 *
US-PATENT-CLASS-165-133	c 33	N72-20915 *	US-PATENT-CLASS-165-96	c 33	N73-32818 *	US-PATENT-CLASS-178-DIG.8	c 14	N72-25412 *
US-PATENT-CLASS-165-133	c 44	N76-23675 *	US-PATENT-CLASS-165-96	c 34	N78-17337 *	US-PATENT-CLASS-178-DIG.8	c 45	N76-17656 *
US-PATENT-CLASS-165-133	c 34	N90-20323 *	US-PATENT-CLASS-165-96	c 34	N84-14461 *	US-PATENT-CLASS-178-15	c 33	N75-19517 *
US-PATENT-CLASS-165-134R	c 74	N83-19596 *	US-PATENT-CLASS-165-96	c 31	N89-12785 *	US-PATENT-CLASS-178-18	c 10	N73-32143 *
US-PATENT-CLASS-165-134	c 34	N78-17336 *	US-PATENT-CLASS-165-96	c 34	N90-21999 *	US-PATENT-CLASS-178-22.16	c 32	N82-31583 *
US-PATENT-CLASS-165-135	c 34	N84-22903 *	US-PATENT-CLASS-166-222	c 43	N81-26509 *	US-PATENT-CLASS-178-22.17	c 32	N82-31583 *
US-PATENT-CLASS-165-138	c 09	N71-24807 *	US-PATENT-CLASS-166-248	c 43	N78-14452 *	US-PATENT-CLASS-178-5.2R	c 09	N71-28618 *
US-PATENT-CLASS-165-13	c 34	N88-23958 *	US-PATENT-CLASS-166-259	c 43	N78-14452 *	US-PATENT-CLASS-178-5.2R	c 07	N72-17109 *
US-PATENT-CLASS-165-141	c 28	N73-32606 *	US-PATENT-CLASS-166-267	c 25	N82-23282 *	US-PATENT-CLASS-178-5.4	c 07	N72-17109 *
US-PATENT-CLASS-165-146	c 34	N79-13289 *	US-PATENT-CLASS-166-303	c 25	N82-23282 *	US-PATENT-CLASS-178-5.8R	c 71	N74-21014 *
US-PATENT-CLASS-165-155	c 33	N72-20915 *	US-PATENT-CLASS-166-343	c 18	N90-20126 *	US-PATENT-CLASS-178-50	c 08	N72-18184 *
US-PATENT-CLASS-165-156	c 25	N90-11824 *	US-PATENT-CLASS-166-63	c 46	N79-22679 *	US-PATENT-CLASS-178-50	c 08	N72-25208 *
US-PATENT-CLASS-165-158	c 33	N72-20915 *	US-PATENT-CLASS-166-77	c 43	N81-26509 *	US-PATENT-CLASS-178-52	c 08	N72-22162 *
US-PATENT-CLASS-165-161	c 33	N72-20915 *	US-PATENT-CLASS-169-28	c 12	N72-21310 *	US-PATENT-CLASS-178-54CF	c 09	N71-28618 *
US-PATENT-CLASS-165-164	c 34	N77-10463 *	US-PATENT-CLASS-169-36	c 12	N72-21310 *	US-PATENT-CLASS-178-54PE	c 09	N71-28618 *
US-PATENT-CLASS-165-166	c 54	N77-32722 *	US-PATENT-CLASS-169-47	c 25	N83-36118 *	US-PATENT-CLASS-178-58A	c 32	N75-21486 *
US-PATENT-CLASS-165-169	c 34	N79-13288 *	US-PATENT-CLASS-169-62	c 31	N81-14137 *	US-PATENT-CLASS-178-58R	c 32	N80-18252 *
US-PATENT-CLASS-165-169	c 34	N79-13289 *	US-PATENT-CLASS-169-70	c 31	N81-14137 *	US-PATENT-CLASS-178-6.5	c 23	N72-27728 *
US-PATENT-CLASS-165-169	c 31	N80-32583 *	US-PATENT-CLASS-173-131	c 15	N73-13463 *	US-PATENT-CLASS-178-6.6DD	c 07	N73-30115 *
US-PATENT-CLASS-165-170	c 34	N77-10463 *	US-PATENT-CLASS-173-132	c 37	N76-18454 *	US-PATENT-CLASS-178-6.6DD	c 35	N74-11283 *
US-PATENT-CLASS-165-170	c 34	N88-29132 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-26752 *	US-PATENT-CLASS-178-6.6	c 07	N71-11300 *
US-PATENT-CLASS-165-174	c 33	N72-20915 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-32571 *	US-PATENT-CLASS-178-6.6	c 07	N71-26102 *
US-PATENT-CLASS-165-180	c 34	N90-20323 *	US-PATENT-CLASS-174-DIG.8	c 33	N74-22865 *	US-PATENT-CLASS-178-6.7R	c 35	N74-15831 *
US-PATENT-CLASS-165-185	c 28	N73-32606 *	US-PATENT-CLASS-174-106R	c 09	N72-22198 *	US-PATENT-CLASS-178-6.7	c 07	N72-17109 *
US-PATENT-CLASS-165-185	c 34	N83-28356 *	US-PATENT-CLASS-174-110.3	c 14	N71-27186 *	US-PATENT-CLASS-178-6.8	c 08	N72-22164 *
US-PATENT-CLASS-165-1	c 09	N70-41717 *	US-PATENT-CLASS-174-111	c 33	N74-27683 *	US-PATENT-CLASS-178-6.8	c 14	N72-25412 *
US-PATENT-CLASS-165-1	c 34	N75-12222 *	US-PATENT-CLASS-174-115	c 09	N70-38201 *	US-PATENT-CLASS-178-6.8	c 07	N73-30115 *
US-PATENT-CLASS-165-1	c 34	N85-29180 *	US-PATENT-CLASS-174-117FF	c 09	N72-22198 *	US-PATENT-CLASS-178-6.8	c 33	N75-30431 *
US-PATENT-CLASS-165-1	c 34	N87-22950 *	US-PATENT-CLASS-174-126CP	c 26	N73-32571 *	US-PATENT-CLASS-178-6.8	c 45	N76-17656 *
US-PATENT-CLASS-165-1	c 34	N88-23958 *	US-PATENT-CLASS-174-142	c 33	N80-18286 *	US-PATENT-CLASS-178-66R	c 32	N75-24981 *
US-PATENT-CLASS-165-20	c 03	N72-28025 *	US-PATENT-CLASS-174-145	c 33	N76-16332 *	US-PATENT-CLASS-178-66	c 09	N71-25866 *
US-PATENT-CLASS-165-2	c 33	N71-24876 *	US-PATENT-CLASS-174-148	c 33	N76-16332 *	US-PATENT-CLASS-178-66	c 08	N72-18184 *
US-PATENT-CLASS-165-2	c 35	N74-15093 *	US-PATENT-CLASS-174-15CA	c 31	N79-17029 *	US-PATENT-CLASS-178-67	c 08	N70-41961 *
US-PATENT-CLASS-165-2	c 44	N77-32581 *	US-PATENT-CLASS-174-15C	c 33	N74-27683 *	US-PATENT-CLASS-178-67	c 32	N74-26654 *
US-PATENT-CLASS-165-2	c 44	N78-17460 *	US-PATENT-CLASS-174-18	c 09	N69-21542 *	US-PATENT-CLASS-178-69.1	c 32	N78-15323 *
US-PATENT-CLASS-165-2	c 51	N79-10694 *	US-PATENT-CLASS-174-28	c 07	N71-27191 *	US-PATENT-CLASS-178-69.4R	c 32	N74-10132 *
US-PATENT-CLASS-165-2	c 27	N83-36220 *	US-PATENT-CLASS-174-28	c 33	N74-27683 *	US-PATENT-CLASS-178-69.5R	c 07	N72-20140 *
US-PATENT-CLASS-165-30	c 51	N79-10694 *	US-PATENT-CLASS-174-35	c 07	N71-19436 *	US-PATENT-CLASS-178-69.5R	c 32	N75-26195 *
US-PATENT-CLASS-165-30	c 31	N79-17029 *	US-PATENT-CLASS-174-36	c 09	N72-22198 *	US-PATENT-CLASS-178-69.5R	c 33	N76-14371 *
US-PATENT-CLASS-165-30	c 35	N86-20750 *	US-PATENT-CLASS-174-52-PE	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5R	c 60	N77-19760 *
US-PATENT-CLASS-165-32	c 31	N73-30829 *	US-PATENT-CLASS-174-52-R	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5	c 07	N71-11281 *
US-PATENT-CLASS-165-32	c 33	N73-32818 *	US-PATENT-CLASS-174-52-S	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5	c 10	N71-19468 *
US-PATENT-CLASS-165-32	c 34	N78-17337 *	US-PATENT-CLASS-174-52S	c 15	N73-14469 *	US-PATENT-CLASS-178-69.5	c 10	N71-25865 *
US-PATENT-CLASS-165-32	c 34	N79-31523 *	US-PATENT-CLASS-174-68.5	c 15	N70-41960 *	US-PATENT-CLASS-178-69.5	c 10	N71-33407 *
US-PATENT-CLASS-165-32	c 44	N80-20810 *	US-PATENT-CLASS-174-69	c 33	N74-22865 *	US-PATENT-CLASS-178-69.5	c 07	N72-25173 *
US-PATENT-CLASS-165-32	c 33	N82-24419 *	US-PATENT-CLASS-174-70R	c 33	N74-22865 *	US-PATENT-CLASS-178-69.5	c 07	N73-13149 *
US-PATENT-CLASS-165-32	c 34	N83-28356 *	US-PATENT-CLASS-174-72	c 03	N69-21539 *	US-PATENT-CLASS-178-69.5	c 09	N73-28084 *
US-PATENT-CLASS-165-32	c 34	N83-35307 *	US-PATENT-CLASS-174-73R	c 33	N80-18286 *	US-PATENT-CLASS-178-69.5	c 17	N76-22245 *
US-PATENT-CLASS-165-32	c 34	N84-14461 *	US-PATENT-CLASS-174-84	c 15	N72-17455 *	US-PATENT-CLASS-178-69A	c 35	N75-21582 *
US-PATENT-CLASS-165-32	c 34	N85-29179 *	US-PATENT-CLASS-175-1	c 46	N79-22679 *	US-PATENT-CLASS-178-69C	c 32	N76-16249 *
US-PATENT-CLASS-165-32	c 34	N90-21999 *	US-PATENT-CLASS-175-26	c 15	N73-32362 *	US-PATENT-CLASS-178-6	c 07	N71-19433 *

US-PATENT-CLASS-178-6	c 09	N71-19449 *	US-PATENT-CLASS-179-84VF	c 32	N79-23310 *	US-PATENT-CLASS-188-251-A	c 37	N88-29181 *
US-PATENT-CLASS-178-6	c 07	N71-20206 *	US-PATENT-CLASS-179-91R	c 74	N78-14889 *	US-PATENT-CLASS-188-266	c 15	N73-25513 *
US-PATENT-CLASS-178-6	c 07	N71-26579 *	US-PATENT-CLASS-18-26	c 06	N71-22975 *	US-PATENT-CLASS-188-268	c 15	N72-20443 *
US-PATENT-CLASS-178-6	c 07	N72-12081 *	US-PATENT-CLASS-18-39	c 27	N70-34783 *	US-PATENT-CLASS-188-269	c 44	N79-14527 *
US-PATENT-CLASS-178-6	c 16	N72-13437 *	US-PATENT-CLASS-18-6	c 15	N71-26721 *	US-PATENT-CLASS-188-291	c 54	N77-21844 *
US-PATENT-CLASS-178-6	c 10	N73-13235 *	US-PATENT-CLASS-180-105E	c 11	N72-20244 *	US-PATENT-CLASS-188-371	c 37	N82-18601 *
US-PATENT-CLASS-178-6	c 36	N74-20009 *	US-PATENT-CLASS-180-118	c 31	N71-15689 *	US-PATENT-CLASS-188-373	c 37	N88-23982 *
US-PATENT-CLASS-178-7.1	c 07	N71-24612 *	US-PATENT-CLASS-180-121	c 31	N71-15689 *	US-PATENT-CLASS-188-65.1	c 15	N73-25512 *
US-PATENT-CLASS-178-7.1	c 07	N71-27341 *	US-PATENT-CLASS-180-125	c 15	N72-17451 *	US-PATENT-CLASS-188-65.5	c 15	N71-27067 *
US-PATENT-CLASS-178-7.1	c 09	N72-17156 *	US-PATENT-CLASS-180-127	c 15	N72-17451 *	US-PATENT-CLASS-188-87	c 12	N71-16894 *
US-PATENT-CLASS-178-7.1	c 32	N74-19790 *	US-PATENT-CLASS-180-168	c 35	N84-33769 *	US-PATENT-CLASS-188-88	c 15	N71-26611 *
US-PATENT-CLASS-178-7.1	c 36	N75-19652 *	US-PATENT-CLASS-180-19.2	c 85	N87-21755 *	US-PATENT-CLASS-189-36	c 15	N70-36947 *
US-PATENT-CLASS-178-7.2R	c 08	N72-22164 *	US-PATENT-CLASS-180-305	c 85	N87-21755 *	US-PATENT-CLASS-19-205	c 37	N76-18456 *
US-PATENT-CLASS-178-7.2	c 14	N70-41807 *	US-PATENT-CLASS-180-41	c 11	N73-26238 *	US-PATENT-CLASS-191-12.2-R	c 33	N86-20669 *
US-PATENT-CLASS-178-7.2	c 71	N74-21014 *	US-PATENT-CLASS-180-6.5	c 11	N73-26238 *	US-PATENT-CLASS-192-43.1	c 15	N71-17805 *
US-PATENT-CLASS-178-7.2	c 35	N75-25123 *	US-PATENT-CLASS-180-7R	c 11	N73-26238 *	US-PATENT-CLASS-192-46	c 37	N87-17037 *
US-PATENT-CLASS-178-7.3	c 07	N71-27341 *	US-PATENT-CLASS-180-79.3	c 37	N74-18125 *	US-PATENT-CLASS-192-67R	c 37	N87-17037 *
US-PATENT-CLASS-178-7.3	c 07	N72-12081 *	US-PATENT-CLASS-180-8.6	c 18	N88-23828 *	US-PATENT-CLASS-194-82.26	c 37	N90-21390 *
US-PATENT-CLASS-178-7.5E	c 10	N72-31273 *	US-PATENT-CLASS-180-8A	c 11	N73-26238 *	US-PATENT-CLASS-194-82.29	c 37	N90-21390 *
US-PATENT-CLASS-178-7.6	c 36	N74-20009 *	US-PATENT-CLASS-180-9.2R	c 11	N73-26238 *	US-PATENT-CLASS-194-902	c 37	N89-13785 *
US-PATENT-CLASS-178-7.7	c 09	N71-12539 *	US-PATENT-CLASS-180-9.5	c 11	N73-26238 *	US-PATENT-CLASS-195-1.8	c 51	N77-25769 *
US-PATENT-CLASS-178-7.7	c 32	N74-20813 *	US-PATENT-CLASS-181.5R	c 71	N74-31148 *	US-PATENT-CLASS-195-1.8	c 51	N79-10694 *
US-PATENT-CLASS-178-7.89	c 09	N76-24280 *	US-PATENT-CLASS-181-5	c 11	N71-28779 *	US-PATENT-CLASS-195-1.8	c 52	N79-14749 *
US-PATENT-CLASS-178-7.92	c 14	N72-25414 *	US-PATENT-CLASS-181-0.5	c 71	N85-30765 *	US-PATENT-CLASS-195-103.5K	c 51	N77-22794 *
US-PATENT-CLASS-178-7.9	c 32	N75-21486 *	US-PATENT-CLASS-181-0.5	c 71	N88-24241 *	US-PATENT-CLASS-195-103.5K	c 52	N79-14750 *
US-PATENT-CLASS-178-88	c 07	N71-12392 *	US-PATENT-CLASS-181-0.5	c 31	N90-21215 *	US-PATENT-CLASS-195-103.5L	c 52	N79-14750 *
US-PATENT-CLASS-178-88	c 33	N74-12887 *	US-PATENT-CLASS-181-0.5	c 71	N91-14808 *	US-PATENT-CLASS-195-103.5R	c 06	N72-25149 *
US-PATENT-CLASS-178-88	c 32	N74-20809 *	US-PATENT-CLASS-181-102	c 39	N80-10507 *	US-PATENT-CLASS-195-103.5R	c 25	N75-12086 *
US-PATENT-CLASS-178-88	c 33	N74-27705 *	US-PATENT-CLASS-181-102	c 31	N80-32584 *	US-PATENT-CLASS-195-103.5R	c 35	N75-27330 *
US-PATENT-CLASS-178-88	c 33	N76-14371 *	US-PATENT-CLASS-181-105	c 39	N80-10507 *	US-PATENT-CLASS-195-103.5R	c 35	N75-33368 *
US-PATENT-CLASS-178-88	c 32	N76-16249 *	US-PATENT-CLASS-181-106	c 46	N79-22679 *	US-PATENT-CLASS-195-103.5R	c 51	N76-29891 *
US-PATENT-CLASS-178-88	c 32	N77-10392 *	US-PATENT-CLASS-181-115	c 46	N79-23555 *	US-PATENT-CLASS-195-103.5R	c 51	N77-22794 *
US-PATENT-CLASS-178-88	c 32	N77-24331 *	US-PATENT-CLASS-181-117	c 46	N79-22679 *	US-PATENT-CLASS-195-103.5R	c 25	N79-22235 *
US-PATENT-CLASS-179-1DM	c 71	N79-23753 *	US-PATENT-CLASS-181-120	c 46	N79-23555 *	US-PATENT-CLASS-195-120	c 51	N75-13502 *
US-PATENT-CLASS-179-1MF	c 71	N79-23753 *	US-PATENT-CLASS-181-121	c 35	N84-22933 *	US-PATENT-CLASS-195-120	c 35	N75-27330 *
US-PATENT-CLASS-179-1MN	c 32	N79-23310 *	US-PATENT-CLASS-181-148	c 71	N79-23753 *	US-PATENT-CLASS-195-127	c 15	N72-21465 *
US-PATENT-CLASS-179-1P	c 10	N73-12244 *	US-PATENT-CLASS-181-190	c 71	N79-14871 *	US-PATENT-CLASS-195-127	c 11	N72-25284 *
US-PATENT-CLASS-179-1R	c 07	N71-33108 *	US-PATENT-CLASS-181-213	c 71	N79-14871 *	US-PATENT-CLASS-195-127	c 14	N72-25284 *
US-PATENT-CLASS-179-1SA	c 10	N73-25240 *	US-PATENT-CLASS-181-213	c 07	N83-33884 *	US-PATENT-CLASS-195-127	c 15	N73-20514 *
US-PATENT-CLASS-179-1SA	c 32	N76-31372 *	US-PATENT-CLASS-181-214	c 07	N81-14999 *	US-PATENT-CLASS-195-127	c 05	N73-32011 *
US-PATENT-CLASS-179-1SA	c 32	N77-30309 *	US-PATENT-CLASS-181-214	c 71	N82-16800 *	US-PATENT-CLASS-195-127	c 35	N75-12272 *
US-PATENT-CLASS-179-1SP	c 32	N77-30309 *	US-PATENT-CLASS-181-222	c 71	N79-14871 *	US-PATENT-CLASS-195-127	c 51	N75-13502 *
US-PATENT-CLASS-179-1VC	c 07	N71-33108 *	US-PATENT-CLASS-181-286	c 24	N90-21822 *	US-PATENT-CLASS-195-127	c 35	N75-27330 *
US-PATENT-CLASS-179-100.2A	c 21	N73-13644 *	US-PATENT-CLASS-181-290	c 24	N90-21822 *	US-PATENT-CLASS-195-127	c 25	N79-22235 *
US-PATENT-CLASS-179-100.2A	c 32	N74-27612 *	US-PATENT-CLASS-181-293	c 71	N79-14871 *	US-PATENT-CLASS-195-127	c 25	N79-24073 *
US-PATENT-CLASS-179-100.2B	c 32	N74-27612 *	US-PATENT-CLASS-181-33C	c 07	N74-32418 *	US-PATENT-CLASS-195-141	c 35	N75-27330 *
US-PATENT-CLASS-179-100.2CH	c 36	N74-13205 *	US-PATENT-CLASS-181-33F	c 07	N74-32418 *	US-PATENT-CLASS-195-28N	c 06	N72-25149 *
US-PATENT-CLASS-179-100.2CH	c 35	N78-29421 *	US-PATENT-CLASS-181-33HB	c 07	N74-27490 *	US-PATENT-CLASS-195-66R	c 06	N73-27086 *
US-PATENT-CLASS-179-100.2CH	c 35	N79-16246 *	US-PATENT-CLASS-181-33HC	c 07	N74-33218 *	US-PATENT-CLASS-195-68	c 04	N69-27487 *
US-PATENT-CLASS-179-100.2C	c 35	N77-21392 *	US-PATENT-CLASS-181-33HC	c 07	N76-18117 *	US-PATENT-CLASS-195-99	c 06	N71-17705 *
US-PATENT-CLASS-179-100.2K	c 07	N72-21119 *	US-PATENT-CLASS-181-33H	c 07	N74-32418 *	US-PATENT-CLASS-197-188	c 37	N77-19457 *
US-PATENT-CLASS-179-100.2MD	c 35	N74-11283 *	US-PATENT-CLASS-181-33L	c 07	N74-32418 *	US-PATENT-CLASS-197-190	c 37	N77-19457 *
US-PATENT-CLASS-179-100.2T	c 35	N74-11283 *	US-PATENT-CLASS-181-42	c 07	N74-32418 *	US-PATENT-CLASS-198-847	c 37	N80-32717 *
US-PATENT-CLASS-179-100.2	c 09	N69-24329 *	US-PATENT-CLASS-181-43	c 07	N74-15453 *	US-PATENT-CLASS-198-848	c 37	N80-32717 *
US-PATENT-CLASS-179-100.2	c 09	N71-25866 *	US-PATENT-CLASS-181-52	c 28	N70-41582 *	US-PATENT-CLASS-1	c 14	N71-27005 *
US-PATENT-CLASS-179-100.2	c 08	N71-27210 *	US-PATENT-CLASS-182-103	c 18	N89-12621 *	US-PATENT-CLASS-2.115	c 05	N72-25119 *
US-PATENT-CLASS-179-100.2	c 08	N71-27255 *	US-PATENT-CLASS-182-10	c 15	N71-27067 *	US-PATENT-CLASS-2.14	c 05	N71-23098 *
US-PATENT-CLASS-179-100.2CA	c 09	N72-11224 *	US-PATENT-CLASS-182-152	c 31	N87-25492 *	US-PATENT-CLASS-2.161R	c 54	N84-23113 *
US-PATENT-CLASS-179-100.2MD	c 09	N72-11224 *	US-PATENT-CLASS-182-178	c 39	N76-31562 *	US-PATENT-CLASS-2.161R	c 54	N84-28484 *
US-PATENT-CLASS-179-107R	c 33	N78-10375 *	US-PATENT-CLASS-182-191	c 05	N71-11199 *	US-PATENT-CLASS-2.161	c 54	N78-17677 *
US-PATENT-CLASS-179-15.55R	c 08	N72-11171 *	US-PATENT-CLASS-182-223	c 54	N87-29118 *	US-PATENT-CLASS-2.164	c 54	N84-28484 *
US-PATENT-CLASS-179-15.55R	c 08	N72-33172 *	US-PATENT-CLASS-182-5	c 15	N73-25512 *	US-PATENT-CLASS-2.167	c 54	N84-23113 *
US-PATENT-CLASS-179-15AN	c 07	N73-16121 *	US-PATENT-CLASS-182-62.5	c 31	N81-27324 *	US-PATENT-CLASS-2.167	c 54	N84-28484 *
US-PATENT-CLASS-179-15AT	c 32	N74-30524 *	US-PATENT-CLASS-182-63	c 54	N87-29118 *	US-PATENT-CLASS-2.2.1A	c 05	N72-22092 *
US-PATENT-CLASS-179-15A	c 08	N72-22162 *	US-PATENT-CLASS-182-82	c 54	N87-29118 *	US-PATENT-CLASS-2.2.1A	c 05	N73-25125 *
US-PATENT-CLASS-179-15A	c 07	N73-26118 *	US-PATENT-CLASS-184-1	c 15	N71-23048 *	US-PATENT-CLASS-2.2.1A	c 05	N73-32012 *
US-PATENT-CLASS-179-15BA	c 60	N77-12721 *	US-PATENT-CLASS-185-38	c 37	N78-16369 *	US-PATENT-CLASS-2.2.1A	c 54	N74-32546 *
US-PATENT-CLASS-179-15BA	c 32	N80-18252 *	US-PATENT-CLASS-187-1	c 15	N72-25453 *	US-PATENT-CLASS-2.2.1A	c 54	N77-32721 *
US-PATENT-CLASS-179-15BC	c 08	N72-25208 *	US-PATENT-CLASS-187-20	c 15	N72-25453 *	US-PATENT-CLASS-2.2.1A	c 54	N78-17675 *
US-PATENT-CLASS-179-15BC	c 07	N73-16121 *	US-PATENT-CLASS-187-7.1	c 07	N71-24742 *	US-PATENT-CLASS-2.2.1A	c 54	N78-31735 *
US-PATENT-CLASS-179-15BC	c 32	N74-30523 *	US-PATENT-CLASS-187-95	c 15	N72-25453 *	US-PATENT-CLASS-2.2.1A	c 54	N78-31736 *
US-PATENT-CLASS-179-15BC	c 33	N75-26243 *	US-PATENT-CLASS-188-1B	c 15	N72-20443 *	US-PATENT-CLASS-2.2.1A	c 54	N79-24651 *
US-PATENT-CLASS-179-15BL	c 08	N72-22162 *	US-PATENT-CLASS-188-1B	c 19	N76-22284 *	US-PATENT-CLASS-2.2.1A	c 54	N86-28618 *
US-PATENT-CLASS-179-15BM	c 07	N73-26118 *	US-PATENT-CLASS-188-1C	c 15	N72-17450 *	US-PATENT-CLASS-2.2.1A	c 54	N86-28619 *
US-PATENT-CLASS-179-15BS	c 10	N71-33407 *	US-PATENT-CLASS-188-1C	c 15	N72-20443 *	US-PATENT-CLASS-2.2.1A	c 54	N86-28620 *
US-PATENT-CLASS-179-15BS	c 07	N72-20140 *	US-PATENT-CLASS-188-1C	c 15	N73-30460 *	US-PATENT-CLASS-2.2.1A	c 54	N86-29507 *
US-PATENT-CLASS-179-15BS	c 07	N73-30115 *	US-PATENT-CLASS-188-1C	c 11	N73-32152 *	US-PATENT-CLASS-2.2.1A	c 18	N90-16860 *
US-PATENT-CLASS-179-15BS	c 32	N75-26195 *	US-PATENT-CLASS-188-1C	c 37	N79-10420 *	US-PATENT-CLASS-2.2.1R	c 54	N86-28618 *
US-PATENT-CLASS-179-15BS	c 60	N77-19760 *	US-PATENT-CLASS-188-103	c 15	N71-27146 *	US-PATENT-CLASS-2.2.1R	c 54	N86-28619 *
US-PATENT-CLASS-179-15BV	c 07	N72-25172 *	US-PATENT-CLASS-188-129	c 15	N72-17450 *	US-PATENT-CLASS-2.2.1	c 05	N71-11194 *
US-PATENT-CLASS-179-15BY	c 32	N74-30524 *	US-PATENT-CLASS-188-134	c 37	N81-15364 *	US-PATENT-CLASS-2.2.1	c 05	N71-11195 *
US-PATENT-CLASS-179-15FD	c 08	N72-25208 *	US-PATENT-CLASS-188-151A	c 44	N79-14527 *	US-PATENT-CLASS-2.2.1	c 05	N71-12335 *
US-PATENT-CLASS-179-15FS	c 07	N73-28012 *	US-PATENT-CLASS-188-163	c 37	N74-26976 *	US-PATENT-CLASS-2.2.1	c 05	N71-12344 *
US-PATENT-CLASS-179-15	c 07	N69-39978 *	US-PATENT-CLASS-188-171	c 37	N74-26976 *	US-PATENT-CLASS-2.2.1	c 05	N71-23161 *
US-PATENT-CLASS-179-15	c 07	N71-20814 *	US-PATENT-CLASS-188-180	c 37	N81-15364 *	US-PATENT-CLASS-2.2.1	c 05	N71-24623 *
US-PATENT-CLASS-179-15	c 07	N71-24621 *	US-PATENT-CLASS-188-184	c 37	N81-15364 *	US-PATENT-CLASS-2.2.1	c 05	N71-24730 *
US-PATENT-CLASS-179-15	c 07	N71-24622 *	US-PATENT-CLASS-188-1	c 15	N70-34861 *	US-PATENT-CLASS-2.2.1	c 05	N72-20098 *
US-PATENT-CLASS-179-15	c 08	N72-18184 *	US-PATENT-CLASS-188-1	c 15	N70-38601 *	US-PATENT-CLASS-2.2.1	c 05	N72-20098 *
US-PATENT-CLASS-179-175.1A	c 14	N73-27379 *	US-PATENT-CLASS-188-1	c 15	N70-40354 *	US-PATENT-CLASS-2.2.1	c 05	N72-25119 *
US-PATENT-CLASS-179-175.1A	c 33	N78-10375 *	US-PATENT-CLASS-188-1	c 14	N71-17626 *	US-PATENT-CLASS-2.2.1	c 05	N73-26071 *
US-PATENT-CLASS-179-18BC	c 32	N86-27513 *	US-PATENT-CLASS-188-1	c 15	N71-22877 *	US-PATENT-CLASS-2.2.1	c 34	N78-17337 *
US-PATENT-CLASS-179-18GF	c 33	N82-29538 *	US-PATENT-CLASS-188-1	c 14	N71-23092 *	US-PATENT-CLASS-2.2.1	c 54	N78-17678 *
US-PATENT-CLASS-179-1	c 07	N71-26181 *	US-PATENT-CLASS-188-1	c 15	N71-26243 *	US-PATENT-CLASS-2.2.1	c 54	N78-18761 *
US-PATENT-CLASS-179-1	c 31	N71-33160 *	US-PATENT-CLASS-188-1	c 15	N71-27146 *	US-PATENT-CLASS-2.201	c 54	N89-29953 *
US-PATENT-CLASS-179-27CA	c 32	N79-23310 *	US-PATENT-CLASS-188-1	c 15	N71-27169 *	US-PATENT-CLASS-2.275	c 18	N71-26285 *
US-PATENT-CLASS-179-78	c 33	N81-27397 *	US-PATENT-CLASS-188-218-XL	c 37	N88-29181 *	US-PATENT-CLASS-2-6	c 05	N71-26333 *

US-PATENT-CLASS-2-6	c 54	N78-17680 *	US-PATENT-CLASS-204-192C	c 26	N82-30371 *	US-PATENT-CLASS-204-33	c 44	N76-14595 *
US-PATENT-CLASS-2-81	c 18	N71-26285 *	US-PATENT-CLASS-204-192C	c 24	N84-22695 *	US-PATENT-CLASS-204-33	c 44	N79-11469 *
US-PATENT-CLASS-2-81	c 05	N73-32012 *	US-PATENT-CLASS-204-192C	c 31	N85-20153 *	US-PATENT-CLASS-204-33	c 44	N83-34449 *
US-PATENT-CLASS-2-82	c 54	N74-32546 *	US-PATENT-CLASS-204-192C	c 24	N85-21267 *	US-PATENT-CLASS-204-35N	c 27	N83-29388 *
US-PATENT-CLASS-200-114	c 33	N79-33393 *	US-PATENT-CLASS-204-192C	c 76	N85-33826 *	US-PATENT-CLASS-204-35N	c 44	N83-34449 *
US-PATENT-CLASS-200-129	c 33	N75-27249 *	US-PATENT-CLASS-204-192C	c 27	N86-32569 *	US-PATENT-CLASS-204-37.6	c 76	N84-35112 *
US-PATENT-CLASS-200-152	c 09	N71-19610 *	US-PATENT-CLASS-204-192C	c 31	N86-32587 *	US-PATENT-CLASS-204-37R	c 44	N79-11469 *
US-PATENT-CLASS-200-153S	c 33	N80-18285 *	US-PATENT-CLASS-204-192D	c 27	N86-32569 *	US-PATENT-CLASS-204-37R	c 27	N83-29388 *
US-PATENT-CLASS-200-157	c 08	N86-27288 *	US-PATENT-CLASS-204-192D	c 31	N86-32587 *	US-PATENT-CLASS-204-37R	c 33	N71-29151 *
US-PATENT-CLASS-200-19	c 09	N70-39915 *	US-PATENT-CLASS-204-192EC	c 27	N82-28440 *	US-PATENT-CLASS-204-38A	c 44	N76-14595 *
US-PATENT-CLASS-200-304	c 33	N80-18285 *	US-PATENT-CLASS-204-192EC	c 27	N82-33521 *	US-PATENT-CLASS-204-38B	c 44	N79-11469 *
US-PATENT-CLASS-200-39	c 03	N70-38713 *	US-PATENT-CLASS-204-192EC	c 33	N84-22884 *	US-PATENT-CLASS-204-38B	c 27	N82-33521 *
US-PATENT-CLASS-200-46	c 74	N79-12890 *	US-PATENT-CLASS-204-192E	c 37	N81-19455 *	US-PATENT-CLASS-204-38	c 17	N71-24830 *
US-PATENT-CLASS-200-61.05	c 25	N86-27431 *	US-PATENT-CLASS-204-192E	c 27	N82-28440 *	US-PATENT-CLASS-204-40	c 44	N76-14595 *
US-PATENT-CLASS-200-61.42	c 09	N71-12518 *	US-PATENT-CLASS-204-192E	c 27	N82-33521 *	US-PATENT-CLASS-204-40	c 24	N77-19171 *
US-PATENT-CLASS-200-61.45	c 14	N70-41812 *	US-PATENT-CLASS-204-192E	c 24	N83-10117 *	US-PATENT-CLASS-204-42	c 44	N76-14595 *
US-PATENT-CLASS-200-61	c 74	N79-12890 *	US-PATENT-CLASS-204-192E	c 52	N84-23095 *	US-PATENT-CLASS-204-430	c 35	N85-29212 *
US-PATENT-CLASS-200-64	c 15	N72-17455 *	US-PATENT-CLASS-204-192N	c 24	N85-21267 *	US-PATENT-CLASS-204-49	c 15	N72-25452 *
US-PATENT-CLASS-200-6	c 10	N71-15909 *	US-PATENT-CLASS-204-192N	c 26	N85-29005 *	US-PATENT-CLASS-204-49	c 44	N76-14595 *
US-PATENT-CLASS-200-6	c 09	N71-16089 *	US-PATENT-CLASS-204-192P	c 76	N85-33826 *	US-PATENT-CLASS-204-56R	c 44	N83-10494 *
US-PATENT-CLASS-200-81.9M	c 09	N72-20199 *	US-PATENT-CLASS-204-192R	c 24	N84-22695 *	US-PATENT-CLASS-204-56R	c 27	N83-29388 *
US-PATENT-CLASS-200-81R	c 09	N72-22204 *	US-PATENT-CLASS-204-192R	c 31	N85-20153 *	US-PATENT-CLASS-204-56R	c 76	N84-35112 *
US-PATENT-CLASS-200-82C	c 09	N72-22204 *	US-PATENT-CLASS-204-192R	c 24	N85-21267 *	US-PATENT-CLASS-204-59	c 15	N72-21466 *
US-PATENT-CLASS-200-82	c 10	N71-23663 *	US-PATENT-CLASS-204-192SP	c 24	N84-22695 *	US-PATENT-CLASS-204-9	c 20	N74-32919 *
US-PATENT-CLASS-200-83N	c 35	N75-15931 *	US-PATENT-CLASS-204-192SP	c 31	N85-20153 *	US-PATENT-CLASS-204-9	c 24	N77-19171 *
US-PATENT-CLASS-200-83	c 33	N79-33392 *	US-PATENT-CLASS-204-192	c 15	N73-12487 *	US-PATENT-CLASS-204-298	c 27	N86-19458 *
US-PATENT-CLASS-201-10	c 27	N81-17261 *	US-PATENT-CLASS-204-192	c 17	N73-24569 *	US-PATENT-CLASS-204-1-195B	c 35	N79-22235 *
US-PATENT-CLASS-201-17	c 44	N78-31527 *	US-PATENT-CLASS-204-192	c 27	N74-13270 *	US-PATENT-CLASS-205-343	c 25	N75-30502 *
US-PATENT-CLASS-201-17	c 25	N81-33246 *	US-PATENT-CLASS-204-192	c 20	N74-31269 *	US-PATENT-CLASS-206-0.7	c 31	N89-29578 *
US-PATENT-CLASS-201-17	c 25	N82-29371 *	US-PATENT-CLASS-204-192	c 37	N75-19684 *	US-PATENT-CLASS-206-439	c 52	N79-14749 *
US-PATENT-CLASS-201-17	c 25	N83-31743 *	US-PATENT-CLASS-204-192	c 44	N77-14580 *	US-PATENT-CLASS-206-447	c 27	N84-14323 *
US-PATENT-CLASS-201-17	c 25	N85-35253 *	US-PATENT-CLASS-204-195B	c 25	N79-24073 *	US-PATENT-CLASS-206-582	c 27	N84-14323 *
US-PATENT-CLASS-201-25	c 27	N81-17261 *	US-PATENT-CLASS-204-195B	c 51	N80-27067 *	US-PATENT-CLASS-208-10	c 25	N79-11152 *
US-PATENT-CLASS-201-8	c 27	N81-17261 *	US-PATENT-CLASS-204-195B	c 51	N81-28698 *	US-PATENT-CLASS-208-10	c 23	N84-16255 *
US-PATENT-CLASS-202-118	c 31	N81-15154 *	US-PATENT-CLASS-204-195B	c 35	N82-28604 *	US-PATENT-CLASS-208-10	c 25	N84-22709 *
US-PATENT-CLASS-202-182	c 05	N71-11207 *	US-PATENT-CLASS-204-195R	c 33	N76-19339 *	US-PATENT-CLASS-208-11	c 25	N86-25428 *
US-PATENT-CLASS-202-234	c 15	N71-23086 *	US-PATENT-CLASS-204-195S	c 25	N82-12166 *	US-PATENT-CLASS-208-241	c 25	N82-23282 *
US-PATENT-CLASS-202-12	c 25	N82-28368 *	US-PATENT-CLASS-204-195W	c 35	N78-25391 *	US-PATENT-CLASS-208-8LE	c 23	N84-16255 *
US-PATENT-CLASS-203-90	c 25	N88-23846 *	US-PATENT-CLASS-204-195	c 14	N71-17575 *	US-PATENT-CLASS-208-8LE	c 25	N84-22709 *
US-PATENT-CLASS-203-91	c 25	N88-23846 *	US-PATENT-CLASS-204-2.1	c 44	N81-29524 *	US-PATENT-CLASS-208-8	c 25	N79-11152 *
US-PATENT-CLASS-203-98	c 25	N88-23846 *	US-PATENT-CLASS-204-20	c 18	N71-16210 *	US-PATENT-CLASS-209-10	c 15	N71-20440 *
US-PATENT-CLASS-204-DIG.11	c 25	N77-32255 *	US-PATENT-CLASS-204-222	c 31	N74-23065 *	US-PATENT-CLASS-209-127R	c 35	N76-22509 *
US-PATENT-CLASS-204-DIG.3	c 25	N84-12262 *	US-PATENT-CLASS-204-224	c 37	N80-14395 *	US-PATENT-CLASS-209-250	c 37	N76-18456 *
US-PATENT-CLASS-204-DIG.3	c 44	N84-23019 *	US-PATENT-CLASS-204-242	c 33	N75-27252 *	US-PATENT-CLASS-209-300	c 37	N76-18456 *
US-PATENT-CLASS-204-1T	c 25	N79-22235 *	US-PATENT-CLASS-204-242	c 25	N84-12262 *	US-PATENT-CLASS-209-305	c 37	N76-18456 *
US-PATENT-CLASS-204-1T	c 51	N81-28698 *	US-PATENT-CLASS-204-252	c 28	N81-24280 *	US-PATENT-CLASS-209-349	c 15	N72-22483 *
US-PATENT-CLASS-204-1T	c 25	N82-12166 *	US-PATENT-CLASS-204-263	c 14	N71-28933 *	US-PATENT-CLASS-209-422	c 71	N85-30765 *
US-PATENT-CLASS-204-1T	c 76	N84-35112 *	US-PATENT-CLASS-204-263	c 25	N82-12166 *	US-PATENT-CLASS-209-638	c 71	N85-30765 *
US-PATENT-CLASS-204-1T	c 35	N85-29212 *	US-PATENT-CLASS-204-264	c 25	N82-12166 *	US-PATENT-CLASS-210-207	c 17	N71-16393 *
US-PATENT-CLASS-204-1T	c 76	N85-30923 *	US-PATENT-CLASS-204-266	c 28	N81-24280 *	US-PATENT-CLASS-210-DIG.23	c 52	N79-14749 *
US-PATENT-CLASS-204-129.55	c 31	N83-19947 *	US-PATENT-CLASS-204-266	c 25	N82-12166 *	US-PATENT-CLASS-210-DIG.27	c 27	N77-31308 *
US-PATENT-CLASS-204-129.75	c 31	N83-19947 *	US-PATENT-CLASS-204-267	c 33	N75-27252 *	US-PATENT-CLASS-210-103	c 05	N72-27102 *
US-PATENT-CLASS-204-129	c 28	N81-24280 *	US-PATENT-CLASS-204-275	c 25	N82-12166 *	US-PATENT-CLASS-210-104	c 05	N72-27102 *
US-PATENT-CLASS-204-129	c 25	N84-12262 *	US-PATENT-CLASS-204-276	c 25	N82-12166 *	US-PATENT-CLASS-210-108	c 34	N79-24285 *
US-PATENT-CLASS-204-129	c 44	N84-23019 *	US-PATENT-CLASS-204-278	c 25	N82-12166 *	US-PATENT-CLASS-210-110	c 05	N79-27102 *
US-PATENT-CLASS-204-130	c 15	N72-21466 *	US-PATENT-CLASS-204-278	c 25	N84-12262 *	US-PATENT-CLASS-210-137	c 05	N72-27102 *
US-PATENT-CLASS-204-157.1H	c 25	N74-30502 *	US-PATENT-CLASS-204-278	c 44	N84-23019 *	US-PATENT-CLASS-210-142	c 34	N79-24285 *
US-PATENT-CLASS-204-157.1H	c 37	N76-18458 *	US-PATENT-CLASS-204-279	c 33	N75-27252 *	US-PATENT-CLASS-210-151	c 45	N84-12654 *
US-PATENT-CLASS-204-157.1R	c 25	N77-32255 *	US-PATENT-CLASS-204-280R	c 25	N83-13187 *	US-PATENT-CLASS-210-186	c 37	N80-10494 *
US-PATENT-CLASS-204-157.1R	c 44	N77-32580 *	US-PATENT-CLASS-204-280	c 44	N84-23019 *	US-PATENT-CLASS-210-188	c 12	N72-25292 *
US-PATENT-CLASS-204-157.1R	c 44	N79-11470 *	US-PATENT-CLASS-204-286	c 33	N75-27252 *	US-PATENT-CLASS-210-192	c 54	N78-14784 *
US-PATENT-CLASS-204-157.18AG	c 15	N72-25452 *	US-PATENT-CLASS-204-290F	c 28	N81-24280 *	US-PATENT-CLASS-210-205	c 29	N90-21209 *
US-PATENT-CLASS-204-157.22	c 25	N88-24732 *	US-PATENT-CLASS-204-290F	c 44	N82-29710 *	US-PATENT-CLASS-210-212	c 03	N72-20030 *
US-PATENT-CLASS-204-157.51	c 25	N90-20154 *	US-PATENT-CLASS-204-290R	c 33	N75-27252 *	US-PATENT-CLASS-210-222	c 35	N78-12390 *
US-PATENT-CLASS-204-158R	c 25	N77-32255 *	US-PATENT-CLASS-204-290R	c 28	N81-24280 *	US-PATENT-CLASS-210-22	c 52	N80-14687 *
US-PATENT-CLASS-204-159.11	c 27	N80-32516 *	US-PATENT-CLASS-204-290R	c 44	N82-29710 *	US-PATENT-CLASS-210-23F	c 51	N79-10693 *
US-PATENT-CLASS-204-159.14	c 27	N80-32516 *	US-PATENT-CLASS-204-290R	c 25	N84-12262 *	US-PATENT-CLASS-210-23H	c 27	N80-23452 *
US-PATENT-CLASS-204-159.15	c 27	N80-26446 *	US-PATENT-CLASS-204-290	c 44	N84-28205 *	US-PATENT-CLASS-210-234	c 34	N75-33342 *
US-PATENT-CLASS-204-159.19	c 27	N80-26446 *	US-PATENT-CLASS-204-291	c 28	N81-24280 *	US-PATENT-CLASS-210-24R	c 27	N81-14076 *
US-PATENT-CLASS-204-162R	c 25	N77-32255 *	US-PATENT-CLASS-204-292	c 25	N78-10225 *	US-PATENT-CLASS-210-247	c 29	N90-21209 *
US-PATENT-CLASS-204-164	c 26	N78-32229 *	US-PATENT-CLASS-204-298	c 15	N70-34967 *	US-PATENT-CLASS-210-24	c 27	N77-30236 *
US-PATENT-CLASS-204-168	c 24	N71-25555 *	US-PATENT-CLASS-204-298	c 09	N71-26701 *	US-PATENT-CLASS-210-24	c 25	N81-19244 *
US-PATENT-CLASS-204-16	c 24	N77-19171 *	US-PATENT-CLASS-204-298	c 15	N72-32487 *	US-PATENT-CLASS-210-257.1	c 29	N90-21209 *
US-PATENT-CLASS-204-171	c 27	N80-23452 *	US-PATENT-CLASS-204-298	c 37	N75-19684 *	US-PATENT-CLASS-210-259	c 34	N75-33342 *
US-PATENT-CLASS-204-175	c 26	N78-32229 *	US-PATENT-CLASS-204-298	c 27	N86-32569 *	US-PATENT-CLASS-210-282	c 37	N87-17035 *
US-PATENT-CLASS-204-177	c 25	N75-12087 *	US-PATENT-CLASS-204-298	c 31	N86-32587 *	US-PATENT-CLASS-210-28	c 85	N79-17747 *
US-PATENT-CLASS-204-180.1	c 25	N88-23845 *	US-PATENT-CLASS-204-298	c 31	N87-21160 *	US-PATENT-CLASS-210-304	c 34	N75-33342 *
US-PATENT-CLASS-204-180G	c 25	N78-14104 *	US-PATENT-CLASS-204-299-R	c 25	N88-23845 *	US-PATENT-CLASS-210-314	c 28	N70-41447 *
US-PATENT-CLASS-204-180G	c 25	N79-14169 *	US-PATENT-CLASS-204-299R	c 25	N78-14104 *	US-PATENT-CLASS-210-321.1	c 25	N82-21269 *
US-PATENT-CLASS-204-180G	c 37	N80-14397 *	US-PATENT-CLASS-204-299R	c 25	N79-14169 *	US-PATENT-CLASS-210-321.6	c 29	N90-21209 *
US-PATENT-CLASS-204-180P	c 54	N78-14784 *	US-PATENT-CLASS-204-299R	c 37	N80-14397 *	US-PATENT-CLASS-210-321B	c 52	N80-14687 *
US-PATENT-CLASS-204-180R	c 25	N74-26948 *	US-PATENT-CLASS-204-299R	c 51	N80-16715 *	US-PATENT-CLASS-210-333	c 34	N75-33342 *
US-PATENT-CLASS-204-180R	c 34	N74-27744 *	US-PATENT-CLASS-204-299R	c 25	N83-10126 *	US-PATENT-CLASS-210-340	c 34	N75-33342 *
US-PATENT-CLASS-204-180R	c 51	N80-16715 *	US-PATENT-CLASS-204-299R	c 25	N83-13187 *	US-PATENT-CLASS-210-340	c 37	N80-10494 *
US-PATENT-CLASS-204-180S	c 25	N79-10163 *	US-PATENT-CLASS-204-299	c 34	N74-27744 *	US-PATENT-CLASS-210-340	c 29	N90-21209 *
US-PATENT-CLASS-204-180S	c 25	N79-14169 *	US-PATENT-CLASS-204-299	c 25	N79-10163 *	US-PATENT-CLASS-210-355	c 51	N91-14703 *
US-PATENT-CLASS-204-192.15	c 26	N87-25455 *	US-PATENT-CLASS-204-301	c 54	N78-14784 *	US-PATENT-CLASS-210-40	c 27	N77-31308 *
US-PATENT-CLASS-204-192.15	c 76	N88-24543 *	US-PATENT-CLASS-204-305	c 03	N71-24718 *	US-PATENT-CLASS-210-40	c 85	N79-17747 *
US-PATENT-CLASS-204-192.23	c 26	N87-25455 *	US-PATENT-CLASS-204-30	c 09	N71-28691 *	US-PATENT-CLASS-210-40	c 45	N82-11634 *
US-PATENT-CLASS-204-192.24	c 76	N88-24543 *	US-PATENT-CLASS-204-32A	c 33	N77-26385 *	US-PATENT-CLASS-210-411	c 34	N75-33342 *
US-PATENT-CLASS-204-192.31	c 26	N88-14179 *	US-PATENT-CLASS-204-32R	c 44	N76-14595 *	US-PATENT-CLASS-210-414	c 51	N91-14703 *
US-PATENT-CLASS-204-192-C	c 27	N86-19458 *	US-PATENT-CLASS-204-324	c 33	N73-16918 *	US-PATENT-CLASS-210-425	c 34	N75-33342 *
US-PATENT-CLASS-204-192-D	c 27	N86-19458 *	US-PATENT-CLASS-204-325	c 33	N73-16918 *	US-PATENT-CLASS-210-429	c 37	N76-14463 *
US-PATENT-CLASS-204-192-R	c 27	N86-19458 *	US-PATENT-CLASS-204-328	c 33	N73-16918 *	US-PATENT-CLASS-210-433M	c 51	N79-10693 *
US-PATENT-CLASS-204-192C	c 76	N79-14906 *	US-PATENT-CLASS-204-32	c 44	N79-11469 *	US-PATENT-CLASS-210-445	c 15	N72-11389 *
US-PATENT-CLASS-204-192C	c 26	N82-29415 *	US-PATENT-CLASS-204-33	c 17	N71-25903 *	US-PATENT-CLASS-210-45	c 85	N79-17747 *

US-PATENT-CLASS-210-500.25	c 31	N88-29052 *	US-PATENT-CLASS-219-125.1	c 37	N79-10421 *	US-PATENT-CLASS-220-14	c 15	N69-39935 *	#
US-PATENT-CLASS-210-500.35	c 31	N88-29052 *	US-PATENT-CLASS-219-125	c 15	N71-23815 *	US-PATENT-CLASS-220-15	c 31	N71-15664 *	
US-PATENT-CLASS-210-500M	c 27	N80-23452 *	US-PATENT-CLASS-219-125	c 37	N75-27376 *	US-PATENT-CLASS-220-15	c 34	N75-12222 *	
US-PATENT-CLASS-210-500M	c 25	N81-17187 *	US-PATENT-CLASS-219-130.01	c 74	N87-17493 *	US-PATENT-CLASS-220-1	c 31	N71-17680 *	
US-PATENT-CLASS-210-500	c 25	N75-12087 *	US-PATENT-CLASS-219-130.01	c 74	N87-25843 *	US-PATENT-CLASS-220-2.2	c 24	N79-25143 *	
US-PATENT-CLASS-210-50	c 45	N79-12584 *	US-PATENT-CLASS-219-130.01	c 37	N88-14362 *	US-PATENT-CLASS-220-266	c 37	N79-22474 *	
US-PATENT-CLASS-210-512.1	c 35	N90-22024 *	US-PATENT-CLASS-219-130.4	c 37	N88-30131 *	US-PATENT-CLASS-220-306	c 27	N84-27886 *	
US-PATENT-CLASS-210-512	c 34	N75-33342 *	US-PATENT-CLASS-219-130	c 15	N71-23798 *	US-PATENT-CLASS-220-335	c 45	N83-25217 *	
US-PATENT-CLASS-210-54	c 85	N79-17747 *	US-PATENT-CLASS-219-131	c 15	N71-15871 *	US-PATENT-CLASS-220-378	c 37	N82-24490 *	
US-PATENT-CLASS-210-57	c 45	N80-14579 *	US-PATENT-CLASS-219-136	c 37	N88-14362 *	US-PATENT-CLASS-220-423	c 37	N80-18393 *	
US-PATENT-CLASS-210-602	c 45	N84-12654 *	US-PATENT-CLASS-219-136	c 31	N90-23586 *	US-PATENT-CLASS-220-429	c 44	N80-20808 *	
US-PATENT-CLASS-210-605	c 45	N84-12654 *	US-PATENT-CLASS-219-136	c 31	N90-26168 *	US-PATENT-CLASS-220-445	c 37	N80-18393 *	
US-PATENT-CLASS-210-60	c 45	N79-12584 *	US-PATENT-CLASS-219-137.42	c 37	N88-23980 *	US-PATENT-CLASS-220-46	c 15	N71-27068 *	
US-PATENT-CLASS-210-615	c 45	N91-14662 *	US-PATENT-CLASS-219-137	c 15	N70-34814 *	US-PATENT-CLASS-220-5A	c 31	N89-29578 *	
US-PATENT-CLASS-210-617	c 45	N84-12654 *	US-PATENT-CLASS-219-137	c 37	N75-19683 *	US-PATENT-CLASS-220-5R	c 15	N72-22486 *	
US-PATENT-CLASS-210-63R	c 25	N78-10225 *	US-PATENT-CLASS-219-158	c 15	N72-22491 *	US-PATENT-CLASS-220-55	c 15	N69-27502 *	#
US-PATENT-CLASS-210-63R	c 45	N79-12584 *	US-PATENT-CLASS-219-160	c 37	N80-23655 *	US-PATENT-CLASS-220-63	c 11	N70-38182 *	
US-PATENT-CLASS-210-632	c 45	N80-14579 *	US-PATENT-CLASS-219-161	c 37	N80-23655 *	US-PATENT-CLASS-220-67	c 15	N71-10577 *	
US-PATENT-CLASS-210-639	c 31	N88-29052 *	US-PATENT-CLASS-219-19	c 33	N70-34812 *	US-PATENT-CLASS-220-82R	c 31	N81-19343 *	
US-PATENT-CLASS-210-653	c 31	N88-29052 *	US-PATENT-CLASS-219-201	c 52	N80-16725 *	US-PATENT-CLASS-220-89A	c 31	N81-19343 *	
US-PATENT-CLASS-210-66	c 85	N79-17747 *	US-PATENT-CLASS-219-201	c 37	N85-29286 *	US-PATENT-CLASS-220-89	c 11	N71-15960 *	
US-PATENT-CLASS-210-67	c 85	N79-17747 *	US-PATENT-CLASS-219-203	c 11	N73-12265 *	US-PATENT-CLASS-220-89	c 11	N71-17600 *	
US-PATENT-CLASS-210-70	c 85	N79-17747 *	US-PATENT-CLASS-219-203	c 27	N84-33589 *	US-PATENT-CLASS-220-901	c 37	N80-18393 *	
US-PATENT-CLASS-210-71	c 25	N78-10225 *	US-PATENT-CLASS-219-209	c 35	N81-26431 *	US-PATENT-CLASS-220-901	c 31	N89-29578 *	
US-PATENT-CLASS-210-73R	c 85	N79-17747 *	US-PATENT-CLASS-219-210	c 35	N81-26431 *	US-PATENT-CLASS-220-9	c 23	N71-22881 *	
US-PATENT-CLASS-210-748	c 71	N83-35781 *	US-PATENT-CLASS-219-216	c 35	N74-15831 *	US-PATENT-CLASS-220-9	c 18	N71-23658 *	
US-PATENT-CLASS-210-748	c 35	N84-17555 *	US-PATENT-CLASS-219-219	c 27	N84-33589 *	US-PATENT-CLASS-220-9	c 15	N71-23816 *	
US-PATENT-CLASS-210-82	c 34	N75-33342 *	US-PATENT-CLASS-219-221	c 15	N72-11392 *	US-PATENT-CLASS-220-9	c 33	N71-25351 *	
US-PATENT-CLASS-210-94	c 29	N90-21209 *	US-PATENT-CLASS-219-221	c 37	N85-29286 *	US-PATENT-CLASS-221-265	c 51	N74-15778 *	
US-PATENT-CLASS-210-95	c 29	N90-21209 *	US-PATENT-CLASS-219-229	c 15	N71-27214 *	US-PATENT-CLASS-222-131	c 31	N79-21225 *	
US-PATENT-CLASS-210-96M	c 54	N78-14784 *	US-PATENT-CLASS-219-234	c 15	N72-22491 *	US-PATENT-CLASS-222-135	c 15	N72-21465 *	
US-PATENT-CLASS-210-96M	c 51	N79-10693 *	US-PATENT-CLASS-219-234	c 15	N72-23497 *	US-PATENT-CLASS-222-137	c 14	N71-27005 *	
US-PATENT-CLASS-210-97	c 35	N90-22024 *	US-PATENT-CLASS-219-243	c 15	N72-11392 *	US-PATENT-CLASS-222-145	c 37	N76-19436 *	
US-PATENT-CLASS-211-126	c 35	N86-20751 *	US-PATENT-CLASS-219-273	c 15	N72-32487 *	US-PATENT-CLASS-222-187	c 31	N90-23587 *	
US-PATENT-CLASS-211-74	c 35	N86-20751 *	US-PATENT-CLASS-219-275	c 15	N71-20395 *	US-PATENT-CLASS-222-193	c 37	N74-13178 *	
US-PATENT-CLASS-212-11	c 32	N71-17609 *	US-PATENT-CLASS-219-275	c 20	N87-16875 *	US-PATENT-CLASS-222-309	c 15	N72-21465 *	
US-PATENT-CLASS-212-134	c 15	N72-11388 *	US-PATENT-CLASS-219-285	c 37	N85-29286 *	US-PATENT-CLASS-222-309	c 54	N74-12779 *	
US-PATENT-CLASS-212-225	c 18	N89-12621 *	US-PATENT-CLASS-219-299	c 51	N79-10694 *	US-PATENT-CLASS-222-309	c 35	N85-21595 *	
US-PATENT-CLASS-212-230	c 37	N86-20789 *	US-PATENT-CLASS-219-300	c 37	N77-13418 *	US-PATENT-CLASS-222-324	c 54	N74-17853 *	
US-PATENT-CLASS-212-257	c 18	N89-12621 *	US-PATENT-CLASS-219-302	c 51	N79-10694 *	US-PATENT-CLASS-222-340	c 54	N74-12779 *	
US-PATENT-CLASS-212-267	c 31	N81-27324 *	US-PATENT-CLASS-219-304	c 37	N77-13418 *	US-PATENT-CLASS-222-340	c 35	N85-21595 *	
US-PATENT-CLASS-213-81	c 37	N77-23483 *	US-PATENT-CLASS-219-343	c 27	N83-36220 *	US-PATENT-CLASS-222-387	c 54	N74-12779 *	
US-PATENT-CLASS-214-1CM	c 37	N76-15460 *	US-PATENT-CLASS-219-347	c 15	N69-27871 *	US-PATENT-CLASS-222-389	c 15	N70-38996 *	
US-PATENT-CLASS-214-1BC	c 54	N77-32721 *	US-PATENT-CLASS-219-347	c 33	N70-34545 *	US-PATENT-CLASS-222-414	c 14	N73-27378 *	
US-PATENT-CLASS-214-1B	c 54	N75-27758 *	US-PATENT-CLASS-219-348	c 15	N73-27405 *	US-PATENT-CLASS-222-43	c 35	N85-21595 *	
US-PATENT-CLASS-214-1CM	c 15	N72-28495 *	US-PATENT-CLASS-219-354	c 09	N70-33312 *	US-PATENT-CLASS-222-45	c 14	N70-40233 *	
US-PATENT-CLASS-214-1CM	c 54	N75-12616 *	US-PATENT-CLASS-219-354	c 27	N83-36220 *	US-PATENT-CLASS-222-48	c 35	N85-21595 *	
US-PATENT-CLASS-214-1CM	c 18	N75-27041 *	US-PATENT-CLASS-219-364	c 33	N71-16278 *	US-PATENT-CLASS-222-49	c 14	N71-27005 *	
US-PATENT-CLASS-214-1CM	c 54	N75-27758 *	US-PATENT-CLASS-219-378	c 33	N71-25353 *	US-PATENT-CLASS-222-514	c 54	N74-12779 *	
US-PATENT-CLASS-214-1CM	c 37	N77-23483 *	US-PATENT-CLASS-219-383	c 09	N88-28939 *	US-PATENT-CLASS-222-61	c 27	N71-29155 *	
US-PATENT-CLASS-214-1CM	c 54	N77-32721 *	US-PATENT-CLASS-219-388	c 35	N74-15831 *	US-PATENT-CLASS-222-61	c 37	N77-28487 *	
US-PATENT-CLASS-214-1CM	c 54	N78-17676 *	US-PATENT-CLASS-219-390	c 27	N83-36220 *	US-PATENT-CLASS-222-71	c 15	N72-21465 *	
US-PATENT-CLASS-214-1R	c 37	N76-15457 *	US-PATENT-CLASS-219-390	c 35	N86-20750 *	US-PATENT-CLASS-222-95	c 37	N77-28487 *	
US-PATENT-CLASS-214-16.1CB	c 37	N77-22480 *	US-PATENT-CLASS-219-395	c 35	N86-20750 *	US-PATENT-CLASS-224-25A	c 05	N72-23085 *	
US-PATENT-CLASS-214-1	c 32	N70-41367 *	US-PATENT-CLASS-219-396	c 35	N86-20750 *	US-PATENT-CLASS-224-25	c 05	N71-12351 *	
US-PATENT-CLASS-214-90R	c 03	N72-25021 *	US-PATENT-CLASS-219-410	c 12	N79-26075 *	US-PATENT-CLASS-224-444	c 54	N74-17853 *	
US-PATENT-CLASS-215-247	c 03	N76-19339 *	US-PATENT-CLASS-219-411	c 17	N69-25147 *	US-PATENT-CLASS-225-103	c 37	N82-32730 *	
US-PATENT-CLASS-219-10.41	c 33	N82-26571 *	US-PATENT-CLASS-219-411	c 27	N83-36220 *	US-PATENT-CLASS-225-1	c 15	N71-17628 *	
US-PATENT-CLASS-219-10.43	c 31	N85-29083 *	US-PATENT-CLASS-219-413	c 14	N71-28958 *	US-PATENT-CLASS-225-2	c 26	N71-14354 *	
US-PATENT-CLASS-219-10.49R	c 33	N81-19389 *	US-PATENT-CLASS-219-477	c 33	N74-14935 *	US-PATENT-CLASS-226-190	c 08	N71-19420 *	
US-PATENT-CLASS-219-10.49	c 11	N71-15925 *	US-PATENT-CLASS-219-497	c 77	N75-20140 *	US-PATENT-CLASS-226-58	c 14	N71-28935 *	
US-PATENT-CLASS-219-10.49	c 31	N85-29083 *	US-PATENT-CLASS-219-499	c 14	N73-26430 *	US-PATENT-CLASS-227-27	c 37	N86-25790 *	
US-PATENT-CLASS-219-10.53	c 33	N82-26571 *	US-PATENT-CLASS-219-501	c 77	N75-20140 *	US-PATENT-CLASS-227-28	c 37	N86-25790 *	
US-PATENT-CLASS-219-10.53	c 31	N85-29083 *	US-PATENT-CLASS-219-505	c 14	N71-27058 *	US-PATENT-CLASS-228-103	c 35	N83-35338 *	
US-PATENT-CLASS-219-10.67	c 33	N81-19389 *	US-PATENT-CLASS-219-505	c 77	N75-20140 *	US-PATENT-CLASS-228-107	c 37	N79-13364 *	
US-PATENT-CLASS-219-10.77	c 31	N85-29083 *	US-PATENT-CLASS-219-510	c 14	N73-26430 *	US-PATENT-CLASS-228-107	c 37	N88-14359 *	
US-PATENT-CLASS-219-101	c 15	N73-14468 *	US-PATENT-CLASS-219-510	c 35	N81-26431 *	US-PATENT-CLASS-228-109	c 37	N88-14359 *	
US-PATENT-CLASS-219-101	c 37	N74-11300 *	US-PATENT-CLASS-219-522	c 11	N73-12265 *	US-PATENT-CLASS-228-116	c 37	N81-19455 *	
US-PATENT-CLASS-219-107	c 15	N73-28515 *	US-PATENT-CLASS-219-522	c 52	N80-16725 *	US-PATENT-CLASS-228-118	c 24	N81-17170 *	
US-PATENT-CLASS-219-107	c 37	N74-11300 *	US-PATENT-CLASS-219-522	c 27	N84-33589 *	US-PATENT-CLASS-228-118	c 24	N81-26179 *	
US-PATENT-CLASS-219-109	c 15	N72-23497 *	US-PATENT-CLASS-219-530	c 33	N71-25353 *	US-PATENT-CLASS-228-119	c 37	N86-32736 *	#
US-PATENT-CLASS-219-117	c 15	N73-32358 *	US-PATENT-CLASS-219-539	c 33	N74-14935 *	US-PATENT-CLASS-228-124	c 26	N77-29260 *	
US-PATENT-CLASS-219-118	c 37	N76-27568 *	US-PATENT-CLASS-219-541	c 27	N84-33589 *	US-PATENT-CLASS-228-124	c 37	N87-21334 *	
US-PATENT-CLASS-219-118	c 37	N77-11397 *	US-PATENT-CLASS-219-543	c 27	N84-33589 *	US-PATENT-CLASS-228-13	c 18	N79-11108 *	
US-PATENT-CLASS-219-119	c 15	N73-14468 *	US-PATENT-CLASS-219-545	c 33	N82-26571 *	US-PATENT-CLASS-228-15.1	c 18	N79-11108 *	
US-PATENT-CLASS-219-121.28	c 35	N90-20351 *	US-PATENT-CLASS-219-62	c 15	N73-28515 *	US-PATENT-CLASS-228-157	c 24	N82-24296 *	
US-PATENT-CLASS-219-121.54	c 37	N88-30131 *	US-PATENT-CLASS-219-72	c 15	N71-14932 *	US-PATENT-CLASS-228-157	c 24	N84-11214 *	
US-PATENT-CLASS-219-121.56	c 37	N88-30131 *	US-PATENT-CLASS-219-72	c 37	N90-19602 *	US-PATENT-CLASS-228-165	c 35	N84-22930 *	
US-PATENT-CLASS-219-121.57	c 37	N88-30131 *	US-PATENT-CLASS-219-74	c 74	N87-25843 *	US-PATENT-CLASS-228-170	c 24	N81-17170 *	
US-PATENT-CLASS-219-121.68	c 31	N91-14508 *	US-PATENT-CLASS-219-74	c 37	N90-19602 *	US-PATENT-CLASS-228-173	c 18	N79-11108 *	
US-PATENT-CLASS-219-121LE	c 26	N86-32551 *	US-PATENT-CLASS-219-75	c 37	N88-23980 *	US-PATENT-CLASS-228-174	c 24	N81-17170 *	
US-PATENT-CLASS-219-121LN	c 44	N82-26777 *	US-PATENT-CLASS-219-75	c 31	N90-23586 *	US-PATENT-CLASS-228-181	c 24	N84-11214 *	
US-PATENT-CLASS-219-121LY	c 26	N86-32551 *	US-PATENT-CLASS-219-75	c 31	N90-26168 *	US-PATENT-CLASS-228-190	c 24	N75-28135 *	
US-PATENT-CLASS-219-121P	c 15	N72-32487 *	US-PATENT-CLASS-219-76.14	c 24	N85-30027 *	US-PATENT-CLASS-228-190	c 26	N77-28265 *	
US-PATENT-CLASS-219-121	c 15	N69-21471 *	US-PATENT-CLASS-219-78	c 37	N74-11300 *	US-PATENT-CLASS-228-190	c 24	N81-17170 *	
US-PATENT-CLASS-219-121	c 33	N70-34540 *	US-PATENT-CLASS-219-85CA	c 35	N80-20560 *	US-PATENT-CLASS-228-190	c 24	N81-26179 *	
US-PATENT-CLASS-219-121	c 15	N71-19486 *	US-PATENT-CLASS-219-85CM	c 35	N80-20560 *	US-PATENT-CLASS-228-193	c 24	N75-28135 *	
US-PATENT-CLASS-219-121	c 16	N71-20400 *	US-PATENT-CLASS-219-85R	c 35	N80-20560 *	US-PATENT-CLASS-228-193	c 37	N76-18455 *	
US-PATENT-CLASS-219-121	c 15	N71-27135 *	US-PATENT-CLASS-219-85	c 15	N72-22491 *	US-PATENT-CLASS-228-193	c 35	N83-35338 *	
US-PATENT-CLASS-219-124.02	c 37	N88-30131 *	US-PATENT-CLASS-219-85	c 15	N72-23497 *	US-PATENT-CLASS-228-194	c 26	N77-28265 *	
US-PATENT-CLASS-219-124.2.2	c 37	N79-10421 *	US-PATENT-CLASS-219-91	c 15	N71-18613 *	US-PATENT-CLASS-228-1	c 37	N75-25185 *	
US-PATENT-CLASS-219-124.32	c 37	N79-10421 *	US-PATENT-CLASS-219-91	c 15	N73-32358 *	US-PATENT-CLASS-228-2.5	c 37	N79-13364 *	
US-PATENT-CLASS-219-124.34	c 37	N86-21850 *	US-PATENT-CLASS-219-92	c 37	N76-27568 *	US-PATENT-CLASS-228-2.5	c 37	N88-14359 *	
US-PATENT-CLASS-219-124.34	c 74	N87-17493 *	US-PATENT-CLASS-219-92	c 37	N77-11397 *	US-PATENT-CLASS-228-205	c 37	N81-19455 *	
US-PATENT-CLASS-219-124.34	c 74	N87-25843 *	US-PATENT-CLASS-2						

US-PATENT-CLASS-228-209	c 37	N87-21334 *	US-PATENT-CLASS-23-288	c 28	N72-18766 *	US-PATENT-CLASS-235-197	c 09	N72-23173 *
US-PATENT-CLASS-228-212	c 37	N80-23655 *	US-PATENT-CLASS-23-292	c 51	N77-27677 *	US-PATENT-CLASS-235-197	c 10	N73-20253 *
US-PATENT-CLASS-228-212	c 37	N84-11214 *	US-PATENT-CLASS-23-293R	c 28	N81-15119 *	US-PATENT-CLASS-235-197	c 10	N73-26230 *
US-PATENT-CLASS-228-214	c 24	N76-18455 *	US-PATENT-CLASS-23-295R	c 76	N85-29800 *	US-PATENT-CLASS-235-197	c 60	N75-13539 *
US-PATENT-CLASS-228-222	c 37	N80-23655 *	US-PATENT-CLASS-23-300	c 28	N80-23471 *	US-PATENT-CLASS-235-201	c 10	N71-25899 *
US-PATENT-CLASS-228-232	c 26	N77-28265 *	US-PATENT-CLASS-23-302A	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 01	N71-13411 *
US-PATENT-CLASS-228-238	c 37	N76-18455 *	US-PATENT-CLASS-23-302R	c 28	N80-23471 *	US-PATENT-CLASS-235-61.6	c 15	N71-21179 *
US-PATENT-CLASS-228-263.18	c 35	N83-35338 *	US-PATENT-CLASS-23-302T	c 28	N80-23471 *	US-PATENT-CLASS-235-61NV	c 08	N72-11172 *
US-PATENT-CLASS-228-263	c 26	N77-29260 *	US-PATENT-CLASS-23-313R	c 71	N85-22104 *	US-PATENT-CLASS-235-61NV	c 35	N76-29552 *
US-PATENT-CLASS-228-44.1R	c 37	N80-23655 *	US-PATENT-CLASS-23-55	c 06	N72-17093 *	US-PATENT-CLASS-235-70	c 04	N78-17031 *
US-PATENT-CLASS-228-5.1	c 44	N79-24431 *	US-PATENT-CLASS-23-88	c 06	N72-17093 *	US-PATENT-CLASS-235-78M	c 35	N76-29552 *
US-PATENT-CLASS-228-50	c 15	N70-39924 *	US-PATENT-CLASS-23-927	c 51	N80-16714 *	US-PATENT-CLASS-235-88M	c 35	N76-29552 *
US-PATENT-CLASS-228-50	c 15	N70-40204 *	US-PATENT-CLASS-23-97	c 06	N72-17093 *	US-PATENT-CLASS-235-92CA	c 33	N74-10223 *
US-PATENT-CLASS-228-53	c 15	N71-27214 *	US-PATENT-CLASS-230-162	c 33	N71-17610 *	US-PATENT-CLASS-235-92CA	c 38	N77-17495 *
US-PATENT-CLASS-228-57	c 15	N72-22491 *	US-PATENT-CLASS-230-221	c 11	N72-22245 *	US-PATENT-CLASS-235-92CC	c 08	N72-20176 *
US-PATENT-CLASS-228-6	c 44	N79-24431 *	US-PATENT-CLASS-230-54	c 11	N72-22445 *	US-PATENT-CLASS-235-92CT	c 38	N77-17495 *
US-PATENT-CLASS-228-7	c 15	N71-15607 *	US-PATENT-CLASS-233-DIG.1	c 34	N75-26282 *	US-PATENT-CLASS-235-92CV	c 08	N73-25206 *
US-PATENT-CLASS-228-8	c 15	N71-20350 *	US-PATENT-CLASS-233-11	c 15	N71-16079 *	US-PATENT-CLASS-235-92DE	c 08	N72-20176 *
US-PATENT-CLASS-228-8	c 37	N79-10421 *	US-PATENT-CLASS-233-20RP	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 08	N72-20176 *
US-PATENT-CLASS-228-9	c 15	N71-20393 *	US-PATENT-CLASS-233-25	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N74-10223 *
US-PATENT-CLASS-228-DIG.11	c 32	N73-13921 *	US-PATENT-CLASS-233-46	c 34	N75-26282 *	US-PATENT-CLASS-235-92DM	c 33	N75-19519 *
US-PATENT-CLASS-23-109	c 04	N72-33072 *	US-PATENT-CLASS-233-6	c 34	N75-26282 *	US-PATENT-CLASS-235-92DN	c 08	N73-25206 *
US-PATENT-CLASS-23-201	c 06	N72-17095 *	US-PATENT-CLASS-235-150.27	c 04	N74-13420 *	US-PATENT-CLASS-235-92DN	c 38	N77-17495 *
US-PATENT-CLASS-23-208	c 15	N69-21922 *	US-PATENT-CLASS-235-10.2	c 08	N73-25206 *	US-PATENT-CLASS-235-92EA	c 08	N73-25206 *
US-PATENT-CLASS-23-208	c 26	N70-36805 *	US-PATENT-CLASS-235-150.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92EV	c 08	N73-25206 *
US-PATENT-CLASS-23-209.1	c 15	N72-20446 *	US-PATENT-CLASS-235-150.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92FQ	c 08	N73-20217 *
US-PATENT-CLASS-23-230B	c 25	N75-14844 *	US-PATENT-CLASS-235-150.1	c 32	N77-10392 *	US-PATENT-CLASS-235-92LG	c 08	N72-20176 *
US-PATENT-CLASS-23-230B	c 23	N77-17161 *	US-PATENT-CLASS-235-150.22	c 02	N71-13421 *	US-PATENT-CLASS-235-92LG	c 33	N75-19519 *
US-PATENT-CLASS-23-230B	c 25	N79-14169 *	US-PATENT-CLASS-235-150.22	c 04	N74-13420 *	US-PATENT-CLASS-235-92MT	c 08	N72-31226 *
US-PATENT-CLASS-23-230B	c 51	N80-27067 *	US-PATENT-CLASS-235-150.25	c 21	N71-21688 *	US-PATENT-CLASS-235-92MT	c 32	N73-26910 *
US-PATENT-CLASS-23-230L	c 35	N74-32879 *	US-PATENT-CLASS-235-150.25	c 35	N77-20399 *	US-PATENT-CLASS-235-92PC	c 35	N82-11431 *
US-PATENT-CLASS-23-230M	c 25	N76-18245 *	US-PATENT-CLASS-235-150.26	c 04	N74-13420 *	US-PATENT-CLASS-235-92PE	c 37	N74-21056 *
US-PATENT-CLASS-23-230M	c 23	N77-17161 *	US-PATENT-CLASS-235-150.27	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N72-20176 *
US-PATENT-CLASS-23-230PC	c 25	N78-15210 *	US-PATENT-CLASS-235-150.2	c 08	N71-29033 *	US-PATENT-CLASS-235-92R	c 08	N73-20217 *
US-PATENT-CLASS-23-230PC	c 25	N82-12166 *	US-PATENT-CLASS-235-150.2	c 35	N77-20399 *	US-PATENT-CLASS-235-92R	c 08	N73-25206 *
US-PATENT-CLASS-23-230R	c 06	N72-17094 *	US-PATENT-CLASS-235-150.3	c 33	N74-10223 *	US-PATENT-CLASS-235-92R	c 33	N75-19519 *
US-PATENT-CLASS-23-230R	c 17	N73-12547 *	US-PATENT-CLASS-235-150.52	c 08	N72-22165 *	US-PATENT-CLASS-235-92R	c 38	N77-17495 *
US-PATENT-CLASS-23-230R	c 17	N73-27446 *	US-PATENT-CLASS-235-150.53	c 08	N72-22165 *	US-PATENT-CLASS-235-92SB	c 37	N74-21056 *
US-PATENT-CLASS-23-230R	c 25	N76-18245 *	US-PATENT-CLASS-235-150.53	c 07	N73-13149 *	US-PATENT-CLASS-235-92SH	c 33	N76-14373 *
US-PATENT-CLASS-23-230R	c 45	N76-31714 *	US-PATENT-CLASS-235-150.53	c 33	N75-26243 *	US-PATENT-CLASS-235-92T	c 03	N72-25020 *
US-PATENT-CLASS-23-230R	c 23	N77-17161 *	US-PATENT-CLASS-235-151.13	c 25	N76-18245 *	US-PATENT-CLASS-235-92T	c 08	N73-20217 *
US-PATENT-CLASS-23-230	c 06	N71-23527 *	US-PATENT-CLASS-235-151.1	c 08	N71-29033 *	US-PATENT-CLASS-235-92T	c 33	N75-19519 *
US-PATENT-CLASS-23-230	c 06	N72-17095 *	US-PATENT-CLASS-235-151.1	c 08	N72-31226 *	US-PATENT-CLASS-235-92VA	c 33	N75-19519 *
US-PATENT-CLASS-23-231	c 23	N77-17161 *	US-PATENT-CLASS-235-151.27	c 08	N73-25206 *	US-PATENT-CLASS-235-92	c 08	N71-22897 *
US-PATENT-CLASS-23-232C	c 06	N72-17094 *	US-PATENT-CLASS-235-151.31	c 10	N73-25240 *	US-PATENT-CLASS-235-92	c 08	N71-24891 *
US-PATENT-CLASS-23-232C	c 25	N76-18245 *	US-PATENT-CLASS-235-151.34	c 35	N76-14431 *	US-PATENT-CLASS-235-92	c 10	N71-27137 *
US-PATENT-CLASS-23-232C	c 23	N77-17161 *	US-PATENT-CLASS-235-151.3	c 52	N74-22771 *	US-PATENT-CLASS-235-92	c 14	N71-27215 *
US-PATENT-CLASS-23-232E	c 06	N73-16106 *	US-PATENT-CLASS-235-151.3	c 38	N78-17395 *	US-PATENT-CLASS-236-1F	c 35	N81-26431 *
US-PATENT-CLASS-23-232E	c 45	N76-31714 *	US-PATENT-CLASS-235-151.3	c 38	N78-17396 *	US-PATENT-CLASS-236-1F	c 31	N80-32583 *
US-PATENT-CLASS-23-232E	c 25	N78-15210 *	US-PATENT-CLASS-235-152	c 37	N74-21056 *	US-PATENT-CLASS-236-15-E	c 25	N88-29002 *
US-PATENT-CLASS-23-232E	c 25	N82-12166 *	US-PATENT-CLASS-235-152IE	c 08	N73-32081 *	US-PATENT-CLASS-236-1	c 33	N71-16357 *
US-PATENT-CLASS-23-232R	c 06	N73-16106 *	US-PATENT-CLASS-235-152	c 07	N71-24741 *	US-PATENT-CLASS-236-44C	c 31	N80-32583 *
US-PATENT-CLASS-23-232R	c 45	N76-31714 *	US-PATENT-CLASS-235-152	c 08	N72-20176 *	US-PATENT-CLASS-236-49	c 31	N74-27902 *
US-PATENT-CLASS-23-232R	c 23	N77-17161 *	US-PATENT-CLASS-235-152	c 08	N72-22167 *	US-PATENT-CLASS-236-49	c 31	N80-32583 *
US-PATENT-CLASS-23-232R	c 25	N78-15210 *	US-PATENT-CLASS-235-152	c 08	N72-25210 *	US-PATENT-CLASS-236-68	c 15	N72-12409 *
US-PATENT-CLASS-23-252R	c 25	N74-12813 *	US-PATENT-CLASS-235-152	c 08	N73-12175 *	US-PATENT-CLASS-237-1A	c 44	N76-14602 *
US-PATENT-CLASS-23-252R	c 25	N79-10162 *	US-PATENT-CLASS-235-152	c 09	N73-13209 *	US-PATENT-CLASS-237-1A	c 44	N78-10554 *
US-PATENT-CLASS-23-252R	c 25	N79-28253 *	US-PATENT-CLASS-235-152	c 08	N73-26175 *	US-PATENT-CLASS-237-1A	c 44	N78-15560 *
US-PATENT-CLASS-23-253A	c 51	N77-27677 *	US-PATENT-CLASS-235-152	c 60	N77-14751 *	US-PATENT-CLASS-237-1A	c 44	N78-17460 *
US-PATENT-CLASS-23-253A	c 54	N78-14784 *	US-PATENT-CLASS-235-153AE	c 60	N76-21914 *	US-PATENT-CLASS-237-1A	c 44	N78-31525 *
US-PATENT-CLASS-23-253PC	c 06	N72-17094 *	US-PATENT-CLASS-235-153AK	c 62	N74-14920 *	US-PATENT-CLASS-237-1A	c 44	N79-24433 *
US-PATENT-CLASS-23-253PC	c 37	N74-18123 *	US-PATENT-CLASS-235-153	c 08	N71-24633 *	US-PATENT-CLASS-237-60	c 34	N76-17317 *
US-PATENT-CLASS-23-253R	c 15	N72-21465 *	US-PATENT-CLASS-235-153	c 08	N72-22166 *	US-PATENT-CLASS-238-134	c 85	N74-34672 *
US-PATENT-CLASS-23-253R	c 25	N75-14844 *	US-PATENT-CLASS-235-154	c 08	N70-34778 *	US-PATENT-CLASS-238-1	c 05	N71-28619 *
US-PATENT-CLASS-23-253R	c 25	N76-18245 *	US-PATENT-CLASS-235-154	c 10	N71-23662 *	US-PATENT-CLASS-239-DIG.23	c 37	N85-29283 *
US-PATENT-CLASS-23-253	c 23	N71-16355 *	US-PATENT-CLASS-235-154	c 08	N72-18184 *	US-PATENT-CLASS-239-102	c 37	N80-10494 *
US-PATENT-CLASS-23-253	c 06	N71-26754 *	US-PATENT-CLASS-235-154	c 08	N72-25206 *	US-PATENT-CLASS-239-127.1	c 28	N71-23968 *
US-PATENT-CLASS-23-253	c 06	N72-17095 *	US-PATENT-CLASS-235-155	c 08	N71-24890 *	US-PATENT-CLASS-239-127.1	c 28	N73-32606 *
US-PATENT-CLASS-23-254EF	c 35	N76-18403 *	US-PATENT-CLASS-235-155	c 08	N72-21197 *	US-PATENT-CLASS-239-127.1	c 34	N79-13288 *
US-PATENT-CLASS-23-254E	c 06	N73-16106 *	US-PATENT-CLASS-235-155	c 08	N73-12176 *	US-PATENT-CLASS-239-127.1	c 34	N79-13289 *
US-PATENT-CLASS-23-254E	c 33	N75-26245 *	US-PATENT-CLASS-235-156	c 08	N71-18693 *	US-PATENT-CLASS-239-127.1	c 34	N80-24573 *
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US-PATENT-CLASS-244-1SS	c 31	N73-32750 *	US-PATENT-CLASS-244-139	c 08	N85-35200 *	US-PATENT-CLASS-244-17.19	c 08	N88-23809 *

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US-PATENT-CLASS-244-17.27	c 05	N87-14314 *	US-PATENT-CLASS-244-213	c 08	N82-24205 *	US-PATENT-CLASS-244-75-R	c 08	N85-35200 *
US-PATENT-CLASS-244-170	c 35	N80-21719 *	US-PATENT-CLASS-244-214	c 08	N85-19985 *	US-PATENT-CLASS-244-75-R	c 05	N89-11738 *
US-PATENT-CLASS-244-170	c 18	N83-28064 *	US-PATENT-CLASS-244-215	c 05	N84-22551 *	US-PATENT-CLASS-244-75A	c 02	N73-26004 *
US-PATENT-CLASS-244-171	c 15	N77-10113 *	US-PATENT-CLASS-244-216	c 05	N84-22551 *	US-PATENT-CLASS-244-75R	c 05	N75-12930 *
US-PATENT-CLASS-244-171	c 35	N77-20399 *	US-PATENT-CLASS-244-217	c 37	N82-16408 *	US-PATENT-CLASS-244-75R	c 05	N85-21147 *
US-PATENT-CLASS-244-172	c 18	N76-17185 *	US-PATENT-CLASS-244-218	c 05	N78-32086 *	US-PATENT-CLASS-244-75R	c 05	N90-23390 *
US-PATENT-CLASS-244-172	c 16	N84-27784 *	US-PATENT-CLASS-244-219	c 08	N79-14108 *	US-PATENT-CLASS-244-76-R	c 08	N87-20999 *
US-PATENT-CLASS-244-172	c 18	N84-27787 *	US-PATENT-CLASS-244-220	c 05	N84-22551 *	US-PATENT-CLASS-244-76C	c 02	N73-26004 *
US-PATENT-CLASS-244-172	c 05	N86-19310 *	US-PATENT-CLASS-244-226	c 08	N82-24205 *	US-PATENT-CLASS-244-76	c 21	N70-34539 *
US-PATENT-CLASS-244-172	c 16	N90-22584 *	US-PATENT-CLASS-244-23A	c 21	N72-25595 *	US-PATENT-CLASS-244-76	c 02	N71-13422 *
US-PATENT-CLASS-244-173	c 44	N75-32581 *	US-PATENT-CLASS-244-23C	c 05	N82-26277 *	US-PATENT-CLASS-244-76	c 02	N71-20570 *
US-PATENT-CLASS-244-173	c 37	N81-15364 *	US-PATENT-CLASS-244-23D	c 34	N76-18364 *	US-PATENT-CLASS-244-77A	c 04	N74-13420 *
US-PATENT-CLASS-244-173	c 07	N83-20944 *	US-PATENT-CLASS-244-234	c 08	N86-27288 *	US-PATENT-CLASS-244-77B	c 04	N74-13420 *
US-PATENT-CLASS-244-173	c 37	N86-25789 *	US-PATENT-CLASS-244-23	c 02	N71-11039 *	US-PATENT-CLASS-244-77D	c 02	N73-19004 *
US-PATENT-CLASS-244-175	c 04	N82-23231 *	US-PATENT-CLASS-244-2	c 14	N81-26161 *	US-PATENT-CLASS-244-77F	c 02	N73-26004 *
US-PATENT-CLASS-244-181	c 08	N81-24106 *	US-PATENT-CLASS-244-2	c 18	N84-27787 *	US-PATENT-CLASS-244-77G	c 02	N73-26004 *
US-PATENT-CLASS-244-181	c 08	N81-26152 *	US-PATENT-CLASS-244-3.14	c 31	N71-17691 *	US-PATENT-CLASS-244-77	c 32	N71-23971 *
US-PATENT-CLASS-244-181	c 06	N86-27280 *	US-PATENT-CLASS-244-3.16	c 19	N74-15089 *	US-PATENT-CLASS-244-78	c 08	N82-24205 *
US-PATENT-CLASS-244-182	c 08	N81-26152 *	US-PATENT-CLASS-244-3.21	c 30	N72-17873 *	US-PATENT-CLASS-244-78	c 05	N89-11738 *
US-PATENT-CLASS-244-190	c 04	N82-23231 *	US-PATENT-CLASS-244-3.21	c 15	N76-14158 *	US-PATENT-CLASS-244-79	c 04	N76-26175 *
US-PATENT-CLASS-244-194	c 60	N82-29013 *	US-PATENT-CLASS-244-3.21	c 15	N77-10113 *	US-PATENT-CLASS-244-82	c 05	N79-12061 *
US-PATENT-CLASS-244-195	c 08	N79-23097 *	US-PATENT-CLASS-244-3.21	c 35	N77-20399 *	US-PATENT-CLASS-244-83G	c 08	N79-23097 *
US-PATENT-CLASS-244-195	c 08	N81-24106 *	US-PATENT-CLASS-244-3.22	c 31	N71-17629 *	US-PATENT-CLASS-244-83R	c 05	N75-12930 *
US-PATENT-CLASS-244-199	c 07	N85-35194 *	US-PATENT-CLASS-244-3.22	c 28	N72-22769 *	US-PATENT-CLASS-244-83	c 21	N70-33279 *
US-PATENT-CLASS-244-199	c 02	N88-14071 *	US-PATENT-CLASS-244-3.22	c 20	N76-21275 *	US-PATENT-CLASS-244-83	c 15	N71-23255 *
US-PATENT-CLASS-244-199	c 05	N91-14345 *	US-PATENT-CLASS-244-31	c 02	N71-11037 *	US-PATENT-CLASS-244-83	c 31	N71-33160 *
US-PATENT-CLASS-244-1	c 31	N69-27499 *	US-PATENT-CLASS-244-31	c 31	N71-16081 *	US-PATENT-CLASS-244-83	c 08	N74-10942 *
US-PATENT-CLASS-244-1	c 03	N70-33343 *	US-PATENT-CLASS-244-31	c 34	N74-23039 *	US-PATENT-CLASS-244-87	c 08	N81-19130 *
US-PATENT-CLASS-244-1	c 33	N70-33344 *	US-PATENT-CLASS-244-327	c 08	N74-30421 *	US-PATENT-CLASS-244-90R	c 08	N74-30421 *
US-PATENT-CLASS-244-1	c 03	N70-34157 *	US-PATENT-CLASS-244-32	c 02	N73-13008 *	US-PATENT-CLASS-244-90R	c 05	N79-12061 *
US-PATENT-CLASS-244-1	c 31	N70-34176 *	US-PATENT-CLASS-244-34A	c 05	N82-26277 *	US-PATENT-CLASS-244-90R	c 08	N79-14108 *
US-PATENT-CLASS-244-1	c 21	N70-34295 *	US-PATENT-CLASS-244-35-R	c 02	N89-14224 *	US-PATENT-CLASS-244-90R	c 08	N85-19985 *
US-PATENT-CLASS-244-1	c 31	N70-34296 *	US-PATENT-CLASS-244-35A	c 02	N84-11136 *	US-PATENT-CLASS-244-90R	c 05	N90-23390 *
US-PATENT-CLASS-244-1	c 21	N70-35395 *	US-PATENT-CLASS-244-35R	c 02	N76-22154 *	US-PATENT-CLASS-244-90	c 02	N71-27088 *
US-PATENT-CLASS-244-1	c 31	N70-36410 *	US-PATENT-CLASS-244-35R	c 02	N84-11136 *	US-PATENT-CLASS-244-91	c 08	N74-30421 *
US-PATENT-CLASS-244-1	c 33	N70-36617 *	US-PATENT-CLASS-244-35R	c 02	N84-28732 *	US-PATENT-CLASS-244-91	c 05	N84-12154 *
US-PATENT-CLASS-244-1	c 21	N70-36943 *	US-PATENT-CLASS-244-35R	c 02	N87-16793 *	US-PATENT-CLASS-244-91	c 08	N88-23809 *
US-PATENT-CLASS-244-1	c 31	N70-37924 *	US-PATENT-CLASS-244-40R	c 01	N71-13410 *	US-PATENT-CLASS-244-93	c 05	N82-26277 *
US-PATENT-CLASS-244-1	c 31	N70-37938 *	US-PATENT-CLASS-244-40R	c 02	N76-22154 *	US-PATENT-CLASS-244-161	c 37	N87-22985 *
US-PATENT-CLASS-244-1	c 31	N70-37986 *	US-PATENT-CLASS-244-42CG	c 33	N77-10429 *	US-PATENT-CLASS-247-171	c 35	N75-23910 *
US-PATENT-CLASS-244-1	c 31	N70-38676 *	US-PATENT-CLASS-244-42DA	c 05	N75-25914 *	US-PATENT-CLASS-248-DIG-1	c 18	N89-28554 *
US-PATENT-CLASS-244-1	c 30	N70-40016 *	US-PATENT-CLASS-244-42	c 02	N70-42016 *	US-PATENT-CLASS-248-119	c 11	N70-35383 *
US-PATENT-CLASS-244-1	c 31	N70-41373 *	US-PATENT-CLASS-244-42	c 02	N71-26110 *	US-PATENT-CLASS-248-14	c 15	N72-17454 *
US-PATENT-CLASS-244-1	c 31	N70-41588 *	US-PATENT-CLASS-244-43	c 02	N70-33255 *	US-PATENT-CLASS-248-16	c 18	N74-27397 *
US-PATENT-CLASS-244-1	c 31	N70-41631 *	US-PATENT-CLASS-244-43	c 02	N71-11043 *	US-PATENT-CLASS-248-178	c 15	N70-41310 *
US-PATENT-CLASS-244-1	c 31	N70-41855 *	US-PATENT-CLASS-244-44	c 02	N71-11038 *	US-PATENT-CLASS-248-178	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 21	N70-41856 *	US-PATENT-CLASS-244-45-A	c 05	N88-28914 *	US-PATENT-CLASS-248-183	c 14	N71-26627 *
US-PATENT-CLASS-244-1	c 31	N70-42075 *	US-PATENT-CLASS-244-45A	c 05	N78-32086 *	US-PATENT-CLASS-248-183	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 03	N71-11058 *	US-PATENT-CLASS-244-45A	c 05	N90-23390 *	US-PATENT-CLASS-248-186	c 37	N78-27425 *
US-PATENT-CLASS-244-1	c 33	N71-14035 *	US-PATENT-CLASS-244-45R	c 05	N84-12154 *	US-PATENT-CLASS-248-188.4	c 15	N72-27484 *
US-PATENT-CLASS-244-1	c 21	N71-14132 *	US-PATENT-CLASS-244-45	c 02	N71-12243 *	US-PATENT-CLASS-248-188.9	c 31	N70-34159 *
US-PATENT-CLASS-244-1	c 21	N71-14159 *	US-PATENT-CLASS-244-46	c 02	N70-33266 *	US-PATENT-CLASS-248-18	c 14	N69-27486 *
US-PATENT-CLASS-244-1	c 21	N71-15583 *	US-PATENT-CLASS-244-46	c 02	N70-33286 *	US-PATENT-CLASS-248-18	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 31	N71-15663 *	US-PATENT-CLASS-244-46	c 02	N70-34178 *	US-PATENT-CLASS-248-20	c 15	N72-11391 *
US-PATENT-CLASS-244-1	c 31	N71-15674 *	US-PATENT-CLASS-244-46	c 02	N70-34858 *	US-PATENT-CLASS-248-228	c 37	N84-16560 *
US-PATENT-CLASS-244-1	c 31	N71-15676 *	US-PATENT-CLASS-244-46	c 31	N70-38010 *	US-PATENT-CLASS-248-229	c 37	N91-14617 *
US-PATENT-CLASS-244-1	c 02	N71-16087 *	US-PATENT-CLASS-244-46	c 02	N70-38011 *	US-PATENT-CLASS-248-22	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 31	N71-16222 *	US-PATENT-CLASS-244-46	c 02	N71-11041 *	US-PATENT-CLASS-248-230	c 37	N91-14617 *
US-PATENT-CLASS-244-1	c 31	N71-16345 *	US-PATENT-CLASS-244-46	c 02	N73-26005 *	US-PATENT-CLASS-248-23	c 18	N74-27397 *
US-PATENT-CLASS-244-1	c 31	N71-16346 *	US-PATENT-CLASS-244-46	c 05	N76-29217 *	US-PATENT-CLASS-248-278	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N71-17679 *	US-PATENT-CLASS-244-46	c 05	N78-32086 *	US-PATENT-CLASS-248-27	c 15	N71-20813 *
US-PATENT-CLASS-244-1	c 15	N71-17693 *	US-PATENT-CLASS-244-46	c 08	N79-14108 *	US-PATENT-CLASS-248-316.4	c 37	N87-21333 *
US-PATENT-CLASS-244-1	c 31	N71-17729 *	US-PATENT-CLASS-244-46	c 05	N90-23390 *	US-PATENT-CLASS-248-317	c 11	N69-27466 *
US-PATENT-CLASS-244-1	c 15	N71-19214 *	US-PATENT-CLASS-244-48	c 05	N79-12061 *	US-PATENT-CLASS-248-346	c 14	N70-39898 *
US-PATENT-CLASS-244-1	c 03	N71-20273 *	US-PATENT-CLASS-244-48	c 05	N82-28279 *	US-PATENT-CLASS-248-358R	c 37	N75-18573 *
US-PATENT-CLASS-244-1	c 31	N71-20396 *	US-PATENT-CLASS-244-49	c 43	N81-17499 *	US-PATENT-CLASS-248-358R	c 19	N76-22284 *
US-PATENT-CLASS-244-1	c 31	N71-21064 *	US-PATENT-CLASS-244-4	c 05	N69-21380 *	US-PATENT-CLASS-248-358	c 15	N70-40156 *
US-PATENT-CLASS-244-1	c 14	N71-21082 *	US-PATENT-CLASS-244-4	c 05	N71-12336 *	US-PATENT-CLASS-248-358	c 23	N71-15673 *
US-PATENT-CLASS-244-1	c 21	N71-21708 *	US-PATENT-CLASS-244-4	c 28	N71-27585 *	US-PATENT-CLASS-248-358	c 15	N71-24694 *
US-PATENT-CLASS-244-1	c 31	N71-21881 *	US-PATENT-CLASS-244-50	c 02	N70-34160 *	US-PATENT-CLASS-248-36.3	c 37	N78-17383 *
US-PATENT-CLASS-244-1	c 33	N71-22792 *	US-PATENT-CLASS-244-51	c 02	N70-34856 *	US-PATENT-CLASS-248-360	c 15	N71-17649 *
US-PATENT-CLASS-244-1	c 31	N71-22968 *	US-PATENT-CLASS-244-52	c 08	N81-19130 *	US-PATENT-CLASS-248-361	c 05	N71-28619 *
US-PATENT-CLASS-244-1	c 31	N71-22969 *	US-PATENT-CLASS-244-53A	c 07	N78-18066 *	US-PATENT-CLASS-248-362	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 31	N71-23009 *	US-PATENT-CLASS-244-53B	c 02	N74-20646 *	US-PATENT-CLASS-248-363	c 37	N76-21554 *
US-PATENT-CLASS-244-1	c 14	N71-23040 *	US-PATENT-CLASS-244-53B	c 07	N75-24736 *	US-PATENT-CLASS-248-425	c 37	N82-21567 *
US-PATENT-CLASS-244-1	c 31	N71-23912 *	US-PATENT-CLASS-244-53B	c 07	N77-18154 *	US-PATENT-CLASS-248-487	c 15	N72-11386 *
US-PATENT-CLASS-244-1	c 31	N71-24315 *	US-PATENT-CLASS-244-53B	c 05	N79-24976 *	US-PATENT-CLASS-248-503	c 18	N85-29991 *
US-PATENT-CLASS-244-1	c 15	N71-24600 *	US-PATENT-CLASS-244-53R	c 85	N82-33288 *	US-PATENT-CLASS-248-548	c 37	N88-23982 *
US-PATENT-CLASS-244-1	c 05	N71-24728 *	US-PATENT-CLASS-244-53R	c 05	N84-12154 *	US-PATENT-CLASS-248-550	c 37	N85-34401 *
US-PATENT-CLASS-244-1	c 33	N71-25353 *	US-PATENT-CLASS-244-53	c 28	N71-15563 *	US-PATENT-CLASS-248-550	c 37	N87-21333 *
US-PATENT-CLASS-244-1	c 31	N71-25434 *	US-PATENT-CLASS-244-54	c 07	N78-18066 *	US-PATENT-CLASS-248-555	c 18	N85-29991 *
US-PATENT-CLASS-244-1	c 31	N71-26537 *	US-PATENT-CLASS-244-54	c 07	N79-14096 *	US-PATENT-CLASS-248-608	c 37	N88-23982 *
US-PATENT-CLASS-244-1	c 15	N71-26611 *	US-PATENT-CLASS-244-54	c 05	N90-20078 *	US-PATENT-CLASS-248-636	c 35	N83-32026 *
US-PATENT-CLASS-244-1	c 28	N71-27095 *	US-PATENT-CLASS-244-55	c 02	N73-26005 *	US-PATENT-CLASS-248-638	c 35	N83-32026 *
US-PATENT-CLASS-244-1	c 21	N71-27324 *	US-PATENT-CLASS-244-55	c 05	N75-25914 *	US-PATENT-CLASS-248-638	c 05	N87-14314 *
US-PATENT-CLASS-244-1	c 33	N71-28903 *	US-PATENT-CLASS-244-55	c 05	N84-12154 *	US-PATENT-CLASS-248	c 25	N79-28253 *
US-PATENT-CLASS-244-1	c 15	N71-28936 *	US-PATENT-CLASS-244-55	c 07	N85-35194 *	US-PATENT-CLASS-249-127	c 31	N90-21216 *
US-PATENT-CLASS-244-1	c 31	N71-29050 *	US-PATENT-CLASS-244-55	c 07	N87-16828 *	US-PATENT-CLASS-249-144	c 31	N75-13111 *
US-PATENT-CLASS-244-1	c 31	N71-33160 *	US-PATENT-CLASS-244-55	c 05	N88-28914 *	US-PATENT-CLASS-249-145	c 31	N74-32920 *
US-PATENT-CLASS-244-200	c 02	N87-16793 *	US-PATENT-CLASS-244-55	c 05	N90-20078 *	US-PATENT-CLASS-249-145	c 31	N75-13111 *
US-PATENT-CLASS-244-200	c 02	N88-14071 *	US-PATENT-CLASS-244-57	c 15	N71-26611 *	US-PATENT-CLASS-249-184	c 31	N74-32920 *
US-PATENT-CLASS-244-203	c 34	N91-14562 *	US-PATENT-CLASS-244-58	c 05	N91-14345 *	US-PATENT-CLASS-249-59	c 31	N75-13111 *
US-PATENT-CLASS-244-204	c 02	N87-16793 *	US-PATENT-CLASS-244-63	c 09	N77-19076 *	US-PATENT-CLASS-249-83	c 31	N74-32920 *
US-PATENT-CLASS-244-204	c 34	N91-14562 *	US-PATENT-CLASS-244-63	c 14	N81-26161 *	US-PATENT-CLASS-249-95	c 31	N74-32920 *
US-PATENT-CLASS-244-207	c 05	N88-28914 *	US-PATENT-CLASS-244-63	c 16	N84-27784 *	US-PATENT-CLASS-25-156	c 15	N71-16076 *

US-PATENT-CLASS-250-105	c 14	N70-40240 *	US-PATENT-CLASS-250-218	c 14	N71-28994 *	US-PATENT-CLASS-250-332	c 31	N78-25256 *
US-PATENT-CLASS-250-105	c 14	N73-30389 *	US-PATENT-CLASS-250-218	c 74	N78-33913 *	US-PATENT-CLASS-250-332	c 35	N82-31659 *
US-PATENT-CLASS-250-199	c 06	N69-27491 *	US-PATENT-CLASS-250-219DF	c 91	N74-13130 *	US-PATENT-CLASS-250-332	c 74	N83-19597 *
US-PATENT-CLASS-250-199	c 17	N71-12389 *	US-PATENT-CLASS-250-219TH	c 26	N73-26751 *	US-PATENT-CLASS-250-332	c 74	N84-28590 *
US-PATENT-CLASS-250-199	c 16	N71-22895 *	US-PATENT-CLASS-250-219	c 14	N71-28993 *	US-PATENT-CLASS-250-335	c 34	N76-18374 *
US-PATENT-CLASS-250-199	c 16	N71-25914 *	US-PATENT-CLASS-250-221	c 33	N82-28545 *	US-PATENT-CLASS-250-336.1	c 72	N86-33127 *
US-PATENT-CLASS-250-199	c 16	N71-27183 *	US-PATENT-CLASS-250-221	c 74	N85-22139 *	US-PATENT-CLASS-250-336	c 14	N73-26488 *
US-PATENT-CLASS-250-199	c 16	N73-16536 *	US-PATENT-CLASS-250-225	c 14	N71-24864 *	US-PATENT-CLASS-250-336	c 35	N76-15433 *
US-PATENT-CLASS-250-199	c 07	N73-26119 *	US-PATENT-CLASS-250-225	c 14	N72-27409 *	US-PATENT-CLASS-250-336	c 33	N76-27473 *
US-PATENT-CLASS-250-199	c 74	N76-18913 *	US-PATENT-CLASS-250-225	c 32	N86-20647 *	US-PATENT-CLASS-250-336	c 35	N78-13400 *
US-PATENT-CLASS-250-199	c 74	N76-30053 *	US-PATENT-CLASS-250-226	c 14	N72-25409 *	US-PATENT-CLASS-250-338.1	c 35	N91-14588 *
US-PATENT-CLASS-250-199	c 74	N77-26942 *	US-PATENT-CLASS-250-226	c 43	N79-17288 *	US-PATENT-CLASS-250-338.2	c 35	N91-14588 *
US-PATENT-CLASS-250-199	c 32	N77-28346 *	US-PATENT-CLASS-250-226	c 74	N82-30071 *	US-PATENT-CLASS-250-338	c 35	N74-18088 *
US-PATENT-CLASS-250-199	c 60	N77-32731 *	US-PATENT-CLASS-250-227	c 14	N71-22991 *	US-PATENT-CLASS-250-338	c 35	N77-10493 *
US-PATENT-CLASS-250-199	c 74	N78-14889 *	US-PATENT-CLASS-250-227	c 14	N71-23240 *	US-PATENT-CLASS-250-338	c 47	N77-10753 *
US-PATENT-CLASS-250-201	c 14	N70-40238 *	US-PATENT-CLASS-250-227	c 60	N77-14751 *	US-PATENT-CLASS-250-338	c 35	N80-26635 *
US-PATENT-CLASS-250-201	c 35	N75-15014 *	US-PATENT-CLASS-250-227	c 74	N78-33913 *	US-PATENT-CLASS-250-338	c 35	N83-21311 *
US-PATENT-CLASS-250-201	c 74	N78-17866 *	US-PATENT-CLASS-250-227	c 74	N83-19597 *	US-PATENT-CLASS-250-338	c 74	N84-28590 *
US-PATENT-CLASS-250-203R	c 14	N72-27409 *	US-PATENT-CLASS-250-227	c 74	N84-11921 *	US-PATENT-CLASS-250-338	c 72	N86-33127 *
US-PATENT-CLASS-250-203R	c 14	N73-25462 *	US-PATENT-CLASS-250-228	c 74	N86-26190 *	US-PATENT-CLASS-250-338	c 76	N87-13313 *
US-PATENT-CLASS-250-203R	c 14	N73-28490 *	US-PATENT-CLASS-250-229	c 08	N73-30135 *	US-PATENT-CLASS-250-339	c 35	N77-10493 *
US-PATENT-CLASS-250-203R	c 21	N73-30640 *	US-PATENT-CLASS-250-229	c 74	N90-22383 *	US-PATENT-CLASS-250-339	c 47	N77-10753 *
US-PATENT-CLASS-250-203R	c 19	N74-15089 *	US-PATENT-CLASS-250-231-GY	c 74	N87-23259 *	US-PATENT-CLASS-250-339	c 35	N84-33766 *
US-PATENT-CLASS-250-203R	c 89	N74-30886 *	US-PATENT-CLASS-250-231R	c 74	N82-30071 *	US-PATENT-CLASS-250-339	c 36	N85-21631 *
US-PATENT-CLASS-250-203R	c 35	N77-20401 *	US-PATENT-CLASS-250-231SE	c 74	N74-21304 *	US-PATENT-CLASS-250-339	c 36	N85-29264 *
US-PATENT-CLASS-250-203R	c 74	N77-22951 *	US-PATENT-CLASS-250-231SE	c 44	N80-18552 *	US-PATENT-CLASS-250-339	c 36	N87-28006 *
US-PATENT-CLASS-250-203R	c 44	N81-24520 *	US-PATENT-CLASS-250-231	c 14	N73-20475 *	US-PATENT-CLASS-250-340	c 35	N76-29551 *
US-PATENT-CLASS-250-203R	c 32	N83-18975 *	US-PATENT-CLASS-250-232	c 23	N71-21821 *	US-PATENT-CLASS-250-340	c 74	N83-19597 *
US-PATENT-CLASS-250-203R	c 47	N83-32232 *	US-PATENT-CLASS-250-233	c 23	N71-16100 *	US-PATENT-CLASS-250-340	c 72	N86-33127 *
US-PATENT-CLASS-250-203R	c 44	N88-14492 *	US-PATENT-CLASS-250-234	c 03	N73-20040 *	US-PATENT-CLASS-250-341	c 32	N87-21206 *
US-PATENT-CLASS-250-203X	c 16	N72-13437 *	US-PATENT-CLASS-250-235	c 14	N72-11364 *	US-PATENT-CLASS-250-343	c 35	N74-11284 *
US-PATENT-CLASS-250-203	c 14	N69-27432 *	US-PATENT-CLASS-250-235	c 43	N82-13465 *	US-PATENT-CLASS-250-343	c 25	N74-26947 *
US-PATENT-CLASS-250-203	c 14	N69-27485 *	US-PATENT-CLASS-250-235	c 74	N82-24072 *	US-PATENT-CLASS-250-343	c 45	N75-27585 *
US-PATENT-CLASS-250-203	c 07	N69-39736 *	US-PATENT-CLASS-250-236	c 21	N73-30640 *	US-PATENT-CLASS-250-343	c 74	N76-20958 *
US-PATENT-CLASS-250-203	c 14	N70-34158 *	US-PATENT-CLASS-250-236	c 43	N82-13465 *	US-PATENT-CLASS-250-343	c 25	N76-22323 *
US-PATENT-CLASS-250-203	c 21	N70-35089 *	US-PATENT-CLASS-250-237G	c 74	N79-20856 *	US-PATENT-CLASS-250-343	c 35	N77-14411 *
US-PATENT-CLASS-250-203	c 14	N70-40239 *	US-PATENT-CLASS-250-237R	c 08	N73-30135 *	US-PATENT-CLASS-250-343	c 35	N78-13400 *
US-PATENT-CLASS-250-203	c 21	N71-10678 *	US-PATENT-CLASS-250-237R	c 19	N74-15089 *	US-PATENT-CLASS-250-343	c 25	N81-14015 *
US-PATENT-CLASS-250-203	c 21	N71-10771 *	US-PATENT-CLASS-250-237	c 14	N69-24331 *	US-PATENT-CLASS-250-343	c 35	N84-34705 *
US-PATENT-CLASS-250-203	c 21	N71-15642 *	US-PATENT-CLASS-250-238	c 33	N75-31332 *	US-PATENT-CLASS-250-343	c 36	N85-21631 *
US-PATENT-CLASS-250-203	c 14	N71-19568 *	US-PATENT-CLASS-250-238	c 32	N77-28346 *	US-PATENT-CLASS-250-343	c 36	N87-28006 *
US-PATENT-CLASS-250-203	c 14	N71-23269 *	US-PATENT-CLASS-250-238	c 37	N87-23982 *	US-PATENT-CLASS-250-344	c 25	N76-22323 *
US-PATENT-CLASS-250-203	c 14	N71-23797 *	US-PATENT-CLASS-250-239	c 08	N73-30135 *	US-PATENT-CLASS-250-344	c 74	N78-17867 *
US-PATENT-CLASS-250-203	c 14	N72-22444 *	US-PATENT-CLASS-250-239	c 74	N78-33913 *	US-PATENT-CLASS-250-345	c 45	N75-27585 *
US-PATENT-CLASS-250-203	c 14	N73-30393 *	US-PATENT-CLASS-250-251	c 35	N76-15431 *	US-PATENT-CLASS-250-347	c 35	N77-10493 *
US-PATENT-CLASS-250-203	c 35	N75-23910 *	US-PATENT-CLASS-250-251	c 35	N84-33767 *	US-PATENT-CLASS-250-347	c 47	N77-10753 *
US-PATENT-CLASS-250-204	c 36	N74-21091 *	US-PATENT-CLASS-250-251	c 72	N87-21661 *	US-PATENT-CLASS-250-347	c 74	N80-33210 *
US-PATENT-CLASS-250-205	c 14	N72-27411 *	US-PATENT-CLASS-250-251	c 72	N88-24253 *	US-PATENT-CLASS-250-350	c 25	N81-25159 *
US-PATENT-CLASS-250-205	c 09	N73-14214 *	US-PATENT-CLASS-250-252.1	c 35	N84-33767 *	US-PATENT-CLASS-250-350	c 74	N83-19597 *
US-PATENT-CLASS-250-205	c 36	N74-13205 *	US-PATENT-CLASS-250-252	c 72	N89-29169 *	US-PATENT-CLASS-250-351	c 35	N75-30502 *
US-PATENT-CLASS-250-206	c 10	N71-20782 *	US-PATENT-CLASS-250-253	c 43	N79-31706 *	US-PATENT-CLASS-250-351	c 35	N78-13400 *
US-PATENT-CLASS-250-207	c 14	N72-17328 *	US-PATENT-CLASS-250-272	c 74	N78-15880 *	US-PATENT-CLASS-250-351	c 74	N83-19597 *
US-PATENT-CLASS-250-207	c 14	N73-32317 *	US-PATENT-CLASS-250-272	c 43	N79-31706 *	US-PATENT-CLASS-250-351	c 35	N84-34705 *
US-PATENT-CLASS-250-207	c 33	N74-27682 *	US-PATENT-CLASS-250-277CH	c 76	N78-24950 *	US-PATENT-CLASS-250-352	c 31	N79-17029 *
US-PATENT-CLASS-250-208	c 14	N72-20379 *	US-PATENT-CLASS-250-277CH	c 74	N80-21140 *	US-PATENT-CLASS-250-352	c 34	N79-20336 *
US-PATENT-CLASS-250-209	c 07	N69-39980 *	US-PATENT-CLASS-250-280	c 76	N78-24950 *	US-PATENT-CLASS-250-352	c 35	N80-26635 *
US-PATENT-CLASS-250-209	c 20	N71-16340 *	US-PATENT-CLASS-250-280	c 74	N80-21140 *	US-PATENT-CLASS-250-352	c 74	N80-33210 *
US-PATENT-CLASS-250-209	c 10	N72-17173 *	US-PATENT-CLASS-250-281	c 35	N74-34857 *	US-PATENT-CLASS-250-352	c 37	N87-23982 *
US-PATENT-CLASS-250-209	c 14	N72-25409 *	US-PATENT-CLASS-250-281	c 35	N76-16393 *	US-PATENT-CLASS-250-353	c 35	N76-29551 *
US-PATENT-CLASS-250-209	c 14	N73-16483 *	US-PATENT-CLASS-250-281	c 36	N77-26477 *	US-PATENT-CLASS-250-353	c 35	N80-26635 *
US-PATENT-CLASS-250-209	c 14	N73-26432 *	US-PATENT-CLASS-250-281	c 72	N80-14877 *	US-PATENT-CLASS-250-353	c 74	N80-33210 *
US-PATENT-CLASS-250-209	c 14	N73-28490 *	US-PATENT-CLASS-250-281	c 35	N91-14587 *	US-PATENT-CLASS-250-356.1	c 47	N84-28292 *
US-PATENT-CLASS-250-209	c 21	N73-30640 *	US-PATENT-CLASS-250-282	c 36	N77-26477 *	US-PATENT-CLASS-250-359	c 37	N75-26372 *
US-PATENT-CLASS-250-209	c 44	N81-24520 *	US-PATENT-CLASS-250-282	c 72	N80-14877 *	US-PATENT-CLASS-250-360	c 35	N74-15091 *
US-PATENT-CLASS-250-211J	c 09	N72-17152 *	US-PATENT-CLASS-250-282	c 35	N83-27184 *	US-PATENT-CLASS-250-361	c 35	N74-15091 *
US-PATENT-CLASS-250-211J	c 09	N73-14214 *	US-PATENT-CLASS-250-282	c 35	N91-14587 *	US-PATENT-CLASS-250-363R	c 52	N77-14737 *
US-PATENT-CLASS-250-211J	c 35	N74-15090 *	US-PATENT-CLASS-250-283	c 36	N77-26477 *	US-PATENT-CLASS-250-363R	c 74	N79-20857 *
US-PATENT-CLASS-250-211K	c 74	N77-22951 *	US-PATENT-CLASS-250-286	c 35	N91-14587 *	US-PATENT-CLASS-250-363R	c 74	N84-11920 *
US-PATENT-CLASS-250-211K	c 44	N80-18552 *	US-PATENT-CLASS-250-287	c 35	N76-15431 *	US-PATENT-CLASS-250-363S	c 74	N84-11920 *
US-PATENT-CLASS-250-211K	c 08	N86-27288 *	US-PATENT-CLASS-250-287	c 35	N76-16393 *	US-PATENT-CLASS-250-363S	c 35	N85-30281 *
US-PATENT-CLASS-250-211R	c 36	N75-19652 *	US-PATENT-CLASS-250-287	c 35	N91-14587 *	US-PATENT-CLASS-250-367	c 35	N84-33765 *
US-PATENT-CLASS-250-211R	c 35	N75-23910 *	US-PATENT-CLASS-250-288	c 35	N76-16393 *	US-PATENT-CLASS-250-368	c 74	N81-24900 *
US-PATENT-CLASS-250-212	c 03	N71-23354 *	US-PATENT-CLASS-250-288	c 35	N77-32456 *	US-PATENT-CLASS-250-368	c 74	N84-11920 *
US-PATENT-CLASS-250-212	c 03	N73-20040 *	US-PATENT-CLASS-250-288	c 35	N83-27184 *	US-PATENT-CLASS-250-369	c 35	N74-15091 *
US-PATENT-CLASS-250-212	c 09	N73-32109 *	US-PATENT-CLASS-250-288	c 72	N87-21660 *	US-PATENT-CLASS-250-369	c 35	N82-32659 *
US-PATENT-CLASS-250-213VT	c 74	N78-18905 *	US-PATENT-CLASS-250-288	c 35	N91-14587 *	US-PATENT-CLASS-250-369	c 35	N85-30281 *
US-PATENT-CLASS-250-214AL	c 74	N79-12890 *	US-PATENT-CLASS-250-289	c 35	N77-14406 *	US-PATENT-CLASS-250-370.12	c 35	N91-14588 *
US-PATENT-CLASS-250-214A	c 33	N77-14335 *	US-PATENT-CLASS-250-290	c 35	N77-10492 *	US-PATENT-CLASS-250-370.13	c 35	N91-14588 *
US-PATENT-CLASS-250-214R	c 14	N73-28490 *	US-PATENT-CLASS-250-291	c 35	N77-10492 *	US-PATENT-CLASS-250-370	c 35	N74-18088 *
US-PATENT-CLASS-250-214R	c 74	N79-12890 *	US-PATENT-CLASS-250-295	c 35	N74-34857 *	US-PATENT-CLASS-250-370	c 33	N75-31332 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-296	c 35	N84-28016 *	US-PATENT-CLASS-250-370	c 35	N82-31659 *
US-PATENT-CLASS-250-214	c 14	N73-25462 *	US-PATENT-CLASS-250-298	c 35	N77-14406 *	US-PATENT-CLASS-250-370	c 44	N82-32841 *
US-PATENT-CLASS-250-214	c 35	N74-15090 *	US-PATENT-CLASS-250-304	c 25	N74-26947 *	US-PATENT-CLASS-250-370	c 76	N87-13313 *
US-PATENT-CLASS-250-214	c 33	N82-28545 *	US-PATENT-CLASS-250-305	c 72	N84-28575 *	US-PATENT-CLASS-250-371	c 35	N74-18088 *
US-PATENT-CLASS-250-215	c 14	N73-16483 *	US-PATENT-CLASS-250-305	c 35	N91-14587 *	US-PATENT-CLASS-250-372	c 19	N74-29410 *
US-PATENT-CLASS-250-216	c 74	N79-34011 *	US-PATENT-CLASS-250-307	c 25	N80-20334 *	US-PATENT-CLASS-250-372	c 24	N76-24363 *
US-PATENT-CLASS-250-216	c 74	N82-24072 *	US-PATENT-CLASS-250-308	c 25	N80-20334 *	US-PATENT-CLASS-250-372	c 33	N76-27473 *
US-PATENT-CLASS-250-216	c 74	N89-14077 *	US-PATENT-CLASS-250-310	c 35	N78-10429 *	US-PATENT-CLASS-250-372	c 35	N83-21311 *
US-PATENT-CLASS-250-217F	c 14	N73-16484 *	US-PATENT-CLASS-250-310	c 33	N80-14332 *	US-PATENT-CLASS-250-372	c 35	N84-33767 *
US-PATENT-CLASS-250-217R	c 14	N73-19419 *	US-PATENT-CLASS-250-310	c 35	N90-20351 *	US-PATENT-CLASS-250-373	c 25	N74-26947 *
US-PATENT-CLASS-250-217SS	c 09	N73-14214 *	US-PATENT-CLASS-250-311	c 33	N83-18996 *	US-PATENT-CLASS-250-373	c 35	N75-30502 *
US-PATENT-CLASS-250-217SS	c 36	N74-15145 *	US-PATENT-CLASS-250-320	c 74	N78-15880 *	US-PATENT-CLASS-250-373	c 45	N76-17656 *
US-PATENT-CLASS-250-217	c 14	N69-39896 *	US-PATENT-CLASS-250-322	c 35	N78-15461 *	US-PATENT-CLASS-250-373	c 36	N87-28006 *
US-PATENT-CLASS-250-217	c 14	N73-16483 *	US-PATENT-CLASS-250-327.2	c 74	N91-14835 *	US-PATENT-CLASS-250-374	c 35	N74-26949 *
US-PATENT-CLASS-250-217	c 36	N74-13205 *	US-PATENT-CLASS-250-330	c 44	N82-32841 *	US-PATENT-CLASS-250-374	c 35	N85-34374 *
US-PATENT-CLASS-250-218	c 14	N71-22996 *	US-PATENT-CLASS-250-332	c 35	N75-19613 *	US-PATENT-CLASS-250-379	c 35	N85-34374 *

US-PATENT-CLASS-250-385	c 35	N74-26949 *	US-PATENT-CLASS-250-51.5	c 23	N73-13662 *	US-PATENT-CLASS-251-173	c 15	N70-33376 *
US-PATENT-CLASS-250-385	c 35	N75-27331 *	US-PATENT-CLASS-250-51.5	c 14	N73-28491 *	US-PATENT-CLASS-251-175	c 37	N87-25573 *
US-PATENT-CLASS-250-385	c 35	N76-15433 *	US-PATENT-CLASS-250-510	c 35	N75-19616 *	US-PATENT-CLASS-251-210	c 37	N74-21065 *
US-PATENT-CLASS-250-385	c 35	N76-16393 *	US-PATENT-CLASS-250-511	c 74	N74-27866 *	US-PATENT-CLASS-251-212	c 34	N91-14563 *
US-PATENT-CLASS-250-385	c 35	N82-24471 *	US-PATENT-CLASS-250-513	c 35	N80-28686 *	US-PATENT-CLASS-251-216	c 37	N81-17433 *
US-PATENT-CLASS-250-385	c 35	N84-33765 *	US-PATENT-CLASS-250-518	c 14	N73-30392 *	US-PATENT-CLASS-251-265	c 37	N85-20338 *
US-PATENT-CLASS-250-386	c 35	N82-24471 *	US-PATENT-CLASS-250-51	c 24	N72-11595 *	US-PATENT-CLASS-251-267	c 37	N85-20338 *
US-PATENT-CLASS-250-386	c 35	N83-24763 *	US-PATENT-CLASS-250-527	c 37	N76-18458 *	US-PATENT-CLASS-251-284	c 37	N85-20338 *
US-PATENT-CLASS-250-388	c 33	N82-24471 *	US-PATENT-CLASS-250-527	c 25	N77-32255 *	US-PATENT-CLASS-251-297	c 37	N85-20338 *
US-PATENT-CLASS-250-389	c 35	N73-30392 *	US-PATENT-CLASS-250-527	c 44	N77-32580 *	US-PATENT-CLASS-251-31	c 15	N71-19485 *
US-PATENT-CLASS-250-394	c 14	N74-29410 *	US-PATENT-CLASS-250-527	c 44	N79-11470 *	US-PATENT-CLASS-251-325	c 37	N85-29284 *
US-PATENT-CLASS-250-394	c 19	N90-20351 *	US-PATENT-CLASS-250-527	c 44	N82-16475 *	US-PATENT-CLASS-251-331	c 15	N72-31483 *
US-PATENT-CLASS-250-396-ML	c 35	N87-21661 *	US-PATENT-CLASS-250-528	c 25	N78-25148 *	US-PATENT-CLASS-251-333	c 15	N70-34859 *
US-PATENT-CLASS-250-396-R	c 72	N90-20351 *	US-PATENT-CLASS-250-52	c 15	N71-15606 *	US-PATENT-CLASS-251-333	c 12	N71-18615 *
US-PATENT-CLASS-250-396-R	c 35	N77-14408 *	US-PATENT-CLASS-250-52	c 11	N71-23042 *	US-PATENT-CLASS-251-333	c 15	N72-20442 *
US-PATENT-CLASS-250-396	c 35	N89-29169 *	US-PATENT-CLASS-250-52	c 24	N72-11595 *	US-PATENT-CLASS-251-333	c 37	N75-25185 *
US-PATENT-CLASS-250-397	c 72	N78-10429 *	US-PATENT-CLASS-250-52	c 23	N73-13662 *	US-PATENT-CLASS-251-339	c 37	N81-17433 *
US-PATENT-CLASS-250-398	c 35	N76-29379 *	US-PATENT-CLASS-250-531	c 25	N78-25148 *	US-PATENT-CLASS-251-342	c 12	N71-18615 *
US-PATENT-CLASS-250-400	c 25	N78-27226 *	US-PATENT-CLASS-250-531	c 33	N79-15245 *	US-PATENT-CLASS-251-349	c 37	N85-29284 *
US-PATENT-CLASS-250-400	c 25	N72-29464 *	US-PATENT-CLASS-250-540	c 33	N79-15245 *	US-PATENT-CLASS-251-353	c 37	N85-29284 *
US-PATENT-CLASS-250-41.9D	c 14	N73-12444 *	US-PATENT-CLASS-250-541	c 33	N79-15245 *	US-PATENT-CLASS-251-358	c 15	N71-17648 *
US-PATENT-CLASS-250-41.9G	c 14	N73-12444 *	US-PATENT-CLASS-250-551	c 74	N79-34011 *	US-PATENT-CLASS-251-360	c 15	N72-25451 *
US-PATENT-CLASS-250-41.9S	c 14	N71-28992 *	US-PATENT-CLASS-250-563	c 38	N78-17396 *	US-PATENT-CLASS-251-61.1	c 12	N71-18615 *
US-PATENT-CLASS-250-41.9S	c 14	N71-13461 *	US-PATENT-CLASS-250-566	c 74	N75-25708 *	US-PATENT-CLASS-251-61	c 15	N71-10778 *
US-PATENT-CLASS-250-41.9	c 06	N71-16095 *	US-PATENT-CLASS-250-571	c 36	N78-14380 *	US-PATENT-CLASS-251-7	c 37	N79-28550 *
US-PATENT-CLASS-250-41.9	c 24	N71-23041 *	US-PATENT-CLASS-250-572	c 38	N78-17395 *	US-PATENT-CLASS-251-86	c 15	N72-31483 *
US-PATENT-CLASS-250-41.9	c 14	N71-28863 *	US-PATENT-CLASS-250-572	c 38	N78-17396 *	US-PATENT-CLASS-251-86	c 37	N80-23654 *
US-PATENT-CLASS-250-41.9	c 14	N72-17328 *	US-PATENT-CLASS-250-573	c 74	N76-20958 *	US-PATENT-CLASS-252-12.2	c 24	N79-17916 *
US-PATENT-CLASS-250-41.9	c 14	N73-32325 *	US-PATENT-CLASS-250-573	c 34	N83-31993 *	US-PATENT-CLASS-252-12	c 15	N71-23810 *
US-PATENT-CLASS-250-41.9	c 14	N78-15461 *	US-PATENT-CLASS-250-574	c 45	N76-21742 *	US-PATENT-CLASS-252-12	c 24	N76-22309 *
US-PATENT-CLASS-250-416TV	c 35	N87-21661 *	US-PATENT-CLASS-250-574	c 36	N77-25501 *	US-PATENT-CLASS-252-182.1	c 33	N84-14422 *
US-PATENT-CLASS-250-423-P	c 72	N88-24732 *	US-PATENT-CLASS-250-576	c 35	N74-27860 *	US-PATENT-CLASS-252-26	c 15	N71-21403 *
US-PATENT-CLASS-250-423-P	c 25	N87-21234 *	US-PATENT-CLASS-250-578	c 36	N75-19652 *	US-PATENT-CLASS-252-26	c 15	N71-24046 *
US-PATENT-CLASS-250-423-R	c 33	N87-21660 *	US-PATENT-CLASS-250-585	c 15	N72-25452 *	US-PATENT-CLASS-252-2	c 25	N83-36118 *
US-PATENT-CLASS-250-423-R	c 72	N88-24253 *	US-PATENT-CLASS-250-65R	c 14	N73-30389 *	US-PATENT-CLASS-252-300	c 14	N72-22443 *
US-PATENT-CLASS-250-423-R	c 72	N77-26477 *	US-PATENT-CLASS-250-71.5R	c 14	N72-29464 *	US-PATENT-CLASS-252-300	c 24	N76-24363 *
US-PATENT-CLASS-250-423P	c 36	N78-25148 *	US-PATENT-CLASS-250-71.5	c 14	N72-17328 *	US-PATENT-CLASS-252-301.1R	c 35	N79-10389 *
US-PATENT-CLASS-250-423P	c 25	N80-14877 *	US-PATENT-CLASS-250-71R	c 06	N73-16106 *	US-PATENT-CLASS-252-301.16	c 35	N79-10389 *
US-PATENT-CLASS-250-423P	c 72	N76-15431 *	US-PATENT-CLASS-250-71	c 14	N70-41676 *	US-PATENT-CLASS-252-301.2	c 18	N71-27170 *
US-PATENT-CLASS-250-423	c 35	N76-16393 *	US-PATENT-CLASS-250-83.3H	c 14	N72-21408 *	US-PATENT-CLASS-252-301.4	c 06	N73-30097 *
US-PATENT-CLASS-250-423	c 35	N83-27184 *	US-PATENT-CLASS-250-83.3H	c 14	N72-24477 *	US-PATENT-CLASS-252-305	c 06	N73-30097 *
US-PATENT-CLASS-250-423	c 35	N91-14587 *	US-PATENT-CLASS-250-83.3H	c 14	N73-24445 *	US-PATENT-CLASS-252-359A	c 37	N77-13418 *
US-PATENT-CLASS-250-423	c 35	N87-21660 *	US-PATENT-CLASS-250-83.3H	c 14	N73-20475 *	US-PATENT-CLASS-252-361	c 71	N83-35781 *
US-PATENT-CLASS-250-424	c 72	N85-21491 *	US-PATENT-CLASS-250-83.3H	c 14	N73-25462 *	US-PATENT-CLASS-252-364	c 28	N81-15119 *
US-PATENT-CLASS-250-426	c 33	N80-27163 *	US-PATENT-CLASS-250-83.3R	c 14	N73-12445 *	US-PATENT-CLASS-252-373	c 44	N76-29704 *
US-PATENT-CLASS-250-427	c 72	N87-21660 *	US-PATENT-CLASS-250-83.3R	c 14	N73-20477 *	US-PATENT-CLASS-252-373	c 44	N77-10636 *
US-PATENT-CLASS-250-427	c 72	N88-24253 *	US-PATENT-CLASS-250-83.3R	c 14	N73-32317 *	US-PATENT-CLASS-252-408	c 14	N73-14428 *
US-PATENT-CLASS-250-427	c 25	N88-24732 *	US-PATENT-CLASS-250-83.3UV	c 10	N72-17173 *	US-PATENT-CLASS-252-422	c 45	N82-11634 *
US-PATENT-CLASS-250-429	c 25	N76-29379 *	US-PATENT-CLASS-250-83.3UV	c 14	N72-25409 *	US-PATENT-CLASS-252-431N	c 06	N73-32029 *
US-PATENT-CLASS-250-429	c 25	N78-27226 *	US-PATENT-CLASS-250-83.3UV	c 06	N73-16106 *	US-PATENT-CLASS-252-431R	c 06	N73-32029 *
US-PATENT-CLASS-250-43.5FC	c 14	N72-11365 *	US-PATENT-CLASS-250-83.3	c 21	N70-33181 *	US-PATENT-CLASS-252-472	c 25	N78-10225 *
US-PATENT-CLASS-250-43.5F	c 14	N71-27090 *	US-PATENT-CLASS-250-83.3	c 21	N70-34297 *	US-PATENT-CLASS-252-510	c 24	N91-15320 *
US-PATENT-CLASS-250-43.5R	c 14	N72-21408 *	US-PATENT-CLASS-250-83.3	c 14	N71-15599 *	US-PATENT-CLASS-252-514	c 05	N72-25120 *
US-PATENT-CLASS-250-43.5R	c 06	N72-25146 *	US-PATENT-CLASS-250-83.3	c 14	N71-18699 *	US-PATENT-CLASS-252-514	c 44	N79-31752 *
US-PATENT-CLASS-250-43.5R	c 06	N72-31141 *	US-PATENT-CLASS-250-83.3	c 14	N71-21088 *	US-PATENT-CLASS-252-514	c 25	N82-26396 *
US-PATENT-CLASS-250-43.5	c 27	N71-16348 *	US-PATENT-CLASS-250-83.3	c 09	N71-22985 *	US-PATENT-CLASS-252-518	c 24	N79-14156 *
US-PATENT-CLASS-250-43.5	c 15	N71-24896 *	US-PATENT-CLASS-250-83.3	c 14	N71-25901 *	US-PATENT-CLASS-252-549	c 23	N75-14834 *
US-PATENT-CLASS-250-43.5	c 14	N71-25901 *	US-PATENT-CLASS-250-83.3	c 14	N71-26475 *	US-PATENT-CLASS-252-58	c 18	N70-39897 *
US-PATENT-CLASS-250-432R	c 25	N76-22323 *	US-PATENT-CLASS-250-83.3	c 14	N71-27323 *	US-PATENT-CLASS-252-5	c 25	N83-33977 *
US-PATENT-CLASS-250-432	c 45	N75-27585 *	US-PATENT-CLASS-250-83.3	c 14	N72-17328 *	US-PATENT-CLASS-252-5	c 25	N83-36118 *
US-PATENT-CLASS-250-432	c 25	N77-14737 *	US-PATENT-CLASS-250-83.3	c 35	N75-27329 *	US-PATENT-CLASS-252-62.2	c 33	N91-14536 *
US-PATENT-CLASS-250-444	c 52	N80-28686 *	US-PATENT-CLASS-250-83.6R	c 14	N71-27090 *	US-PATENT-CLASS-252-62.3E	c 44	N80-24741 *
US-PATENT-CLASS-250-457	c 35	N90-22770 *	US-PATENT-CLASS-250-83.6R	c 14	N72-20381 *	US-PATENT-CLASS-252-62.3E	c 44	N81-19558 *
US-PATENT-CLASS-250-459.1	c 35	N75-26372 *	US-PATENT-CLASS-250-83.6R	c 25	N72-33696 *	US-PATENT-CLASS-252-62.3GA	c 25	N75-26043 *
US-PATENT-CLASS-250-460	c 37	N90-22770 *	US-PATENT-CLASS-250-83.6R	c 74	N81-19898 *	US-PATENT-CLASS-252-62.3	c 26	N71-23292 *
US-PATENT-CLASS-250-461.1	c 35	N83-21311 *	US-PATENT-CLASS-250-83.6	c 10	N70-41991 *	US-PATENT-CLASS-252-62.3	c 76	N76-25049 *
US-PATENT-CLASS-250-474.1	c 35	N79-10389 *	US-PATENT-CLASS-250-83CD	c 91	N74-13130 *	US-PATENT-CLASS-252-62	c 27	N74-27037 *
US-PATENT-CLASS-250-475	c 35	N84-33765 *	US-PATENT-CLASS-250-83R	c 14	N73-12445 *	US-PATENT-CLASS-252-70	c 23	N75-14834 *
US-PATENT-CLASS-250-483.1	c 35	N79-20857 *	US-PATENT-CLASS-250-83R	c 14	N73-20477 *	US-PATENT-CLASS-252-8.1	c 18	N73-26572 *
US-PATENT-CLASS-250-483	c 74	N81-24900 *	US-PATENT-CLASS-250-83	c 14	N69-27484 *	US-PATENT-CLASS-252-8.1	c 27	N74-27037 *
US-PATENT-CLASS-250-483	c 74	N91-14835 *	US-PATENT-CLASS-250-83	c 14	N69-39937 *	US-PATENT-CLASS-252-8.1	c 24	N78-14096 *
US-PATENT-CLASS-250-484.1	c 74	N76-15433 *	US-PATENT-CLASS-250-83	c 09	N71-18830 *	US-PATENT-CLASS-253-317	c 44	N77-22606 *
US-PATENT-CLASS-250-489	c 35	N72-11595 *	US-PATENT-CLASS-250-83	c 05	N71-19440 *	US-PATENT-CLASS-253-39.15	c 15	N70-33226 *
US-PATENT-CLASS-250-49.5B	c 24	N72-11595 *	US-PATENT-CLASS-250-83	c 14	N71-20430 *	US-PATENT-CLASS-253-39.15	c 15	N70-33264 *
US-PATENT-CLASS-250-49.5TE	c 14	N69-39982 *	US-PATENT-CLASS-250-83	c 14	N71-23401 *	US-PATENT-CLASS-253-39.15	c 28	N70-33372 *
US-PATENT-CLASS-250-49.5	c 24	N71-28863 *	US-PATENT-CLASS-250-83	c 09	N71-27232 *	US-PATENT-CLASS-253-39.1	c 33	N71-29152 *
US-PATENT-CLASS-250-49.5	c 14	N72-17328 *	US-PATENT-CLASS-250-84	c 14	N71-24809 *	US-PATENT-CLASS-253-66	c 15	N70-36412 *
US-PATENT-CLASS-250-491	c 35	N80-28686 *	US-PATENT-CLASS-251-118	c 15	N71-18580 *	US-PATENT-CLASS-253-66	c 28	N70-39895 *
US-PATENT-CLASS-250-492A	c 33	N80-14332 *	US-PATENT-CLASS-251-11	c 15	N70-35407 *	US-PATENT-CLASS-253-77	c 28	N71-28928 *
US-PATENT-CLASS-250-492B	c 25	N78-27226 *	US-PATENT-CLASS-251-120	c 37	N74-21065 *	US-PATENT-CLASS-253-77	c 28	N71-29154 *
US-PATENT-CLASS-250-492R	c 25	N76-29379 *	US-PATENT-CLASS-251-121	c 15	N71-18580 *	US-PATENT-CLASS-253	c 25	N79-28253 *
US-PATENT-CLASS-250-492R	c 28	N78-24365 *	US-PATENT-CLASS-251-122	c 15	N73-13462 *	US-PATENT-CLASS-254-124	c 20	N76-22296 *
US-PATENT-CLASS-250-492	c 35	N74-15091 *	US-PATENT-CLASS-251-122	c 37	N74-21065 *	US-PATENT-CLASS-254-131	c 60	N82-24839 *
US-PATENT-CLASS-250-492	c 37	N75-26372 *	US-PATENT-CLASS-251-127	c 12	N71-18615 *	US-PATENT-CLASS-254-150	c 15	N71-24599 *
US-PATENT-CLASS-250-493.1	c 35	N91-14588 *	US-PATENT-CLASS-251-127	c 44	N84-14583 *	US-PATENT-CLASS-254-156	c 15	N73-25512 *
US-PATENT-CLASS-250-493	c 73	N75-30876 *	US-PATENT-CLASS-251-129.15	c 37	N87-25573 *	US-PATENT-CLASS-254-158	c 54	N77-21844 *
US-PATENT-CLASS-250-493	c 73	N75-12732 *	US-PATENT-CLASS-251-129	c 15	N72-20442 *	US-PATENT-CLASS-254-173	c 15	N71-24599 *
US-PATENT-CLASS-250-495	c 74	N75-12732 *	US-PATENT-CLASS-251-138	c 37	N80-23654 *	US-PATENT-CLASS-254-186	c 15	N71-24599 *
US-PATENT-CLASS-250-496	c 73	N77-14737 *	US-PATENT-CLASS-251-148	c 15	N71-23024 *	US-PATENT-CLASS-254-190	c 15	N72-25453 *
US-PATENT-CLASS-250-498	c 52	N74-26767 *	US-PATENT-CLASS-251-149.6	c 37	N76-14463 *	US-PATENT-CLASS-254-29A	c 15	N73-30457 *
US-PATENT-CLASS-250-499	c 73	N76-15860 *	US-PATENT-CLASS-251-149.9	c 37	N79-11402 *	US-PATENT-CLASS-254-93-H	c 35	N88-24927 *
US-PATENT-CLASS-250-499	c 72	N78-13436 *	US-PATENT-CLASS-251-160	c 37	N91-14609 *	US-PATENT-CLASS-254-93-R	c 35	N88-24927 *
US-PATENT-CLASS-250-499	c 37	N76-15860 *	US-PATENT-CLASS-251-163	c 37	N91-14609 *	US-PATENT-CLASS-254-93R	c 35	N74-13129 *
US-PATENT-CLASS-250-500	c 72	N74-27866 *	US-PATENT-CLASS-251-165	c 37	N87-21332 *	US-PATENT-CLASS-254-93R	c 20	N76-22296 *
US-PATENT-CLASS-250-505	c 74	N75-19616 *	US-PATENT-CLASS-251-172	c 15	N71-21234 *	US-PATENT-CLASS-256-13.1	c 37	N79-10420 *
US-PATENT-CLASS-250-505	c 35	N75-19616 *	US-PATENT-CLASS-251-172	c 37	N79-33469 *	US-PATENT-CLASS-256-1	c 37	N79-10420 *

US-PATENT-CLASS-256-308.2	c 27	N86-20561 *	US-PATENT-CLASS-260-37EP	c 24	N78-27180 *	US-PATENT-CLASS-260-85.5	c 06	N71-23500 *
US-PATENT-CLASS-259-DIG.18	c 35	N74-15093 *	US-PATENT-CLASS-260-37EP	c 15	N79-26100 *	US-PATENT-CLASS-260-858	c 27	N81-14076 *
US-PATENT-CLASS-259-4AC	c 37	N76-19436	US-PATENT-CLASS-260-37EP	c 27	N81-17260 *	US-PATENT-CLASS-260-877	c 06	N72-22217 *
US-PATENT-CLASS-259-4	c 15	N73-19458 *	US-PATENT-CLASS-260-37N	c 27	N79-28307 *	US-PATENT-CLASS-260-879	c 27	N76-16228 *
US-PATENT-CLASS-259-60	c 35	N74-15093 *	US-PATENT-CLASS-260-37	c 18	N71-25881 *	US-PATENT-CLASS-260-886	c 27	N81-14076 *
US-PATENT-CLASS-259-71	c 15	N71-21177 *	US-PATENT-CLASS-260-37	c 27	N81-24258 *	US-PATENT-CLASS-260-8900	c 27	N81-14076 *
US-PATENT-CLASS-259-72	c 37	N74-18123 *	US-PATENT-CLASS-260-386	c 25	N82-24312 *	US-PATENT-CLASS-260-895	c 27	N81-14076 *
US-PATENT-CLASS-259-98	c 35	N74-15126 *	US-PATENT-CLASS-260-386	c 23	N88-26404 *	US-PATENT-CLASS-260-898	c 27	N81-14076 *
US-PATENT-CLASS-259/4R	c 34	N77-24423 *	US-PATENT-CLASS-260-386	c 25	N90-23497 *	US-PATENT-CLASS-260-900	c 27	N76-16228 *
US-PATENT-CLASS-260.46.5E	c 27	N74-21156 *	US-PATENT-CLASS-260-389	c 25	N82-24312 *	US-PATENT-CLASS-260-901	c 27	N81-14076 *
US-PATENT-CLASS-260-DIG.15	c 27	N78-14164 *	US-PATENT-CLASS-260-389	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25150 *
US-PATENT-CLASS-260-DIG.24	c 27	N74-27037 *	US-PATENT-CLASS-260-395	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25152 *
US-PATENT-CLASS-260-DIG.24	c 27	N76-24405 *	US-PATENT-CLASS-260-395	c 25	N90-23497 *	US-PATENT-CLASS-260-92.1	c 27	N76-16228 *
US-PATENT-CLASS-260-DIG.29	c 27	N80-24438 *	US-PATENT-CLASS-260-396N	c 27	N74-27037 *	US-PATENT-CLASS-260-92.1	c 27	N76-24405 *
US-PATENT-CLASS-260-17.2	c 24	N80-26388 *	US-PATENT-CLASS-260-404.5	c 18	N71-15688 *	US-PATENT-CLASS-260-926	c 27	N80-10358 *
US-PATENT-CLASS-260-17.2	c 24	N81-13999 *	US-PATENT-CLASS-260-42.17	c 27	N78-17215 *	US-PATENT-CLASS-260-927-N	c 23	N86-19376 *
US-PATENT-CLASS-260-17.4UC	c 23	N81-29160 *	US-PATENT-CLASS-260-42.43	c 24	N78-27180 *	US-PATENT-CLASS-260-93.5A	c 06	N73-32029 *
US-PATENT-CLASS-260-17A	c 27	N81-14076 *	US-PATENT-CLASS-260-429	c 06	N71-28808 *	US-PATENT-CLASS-260-93.5S	c 06	N73-32029 *
US-PATENT-CLASS-260-18S	c 06	N72-25151 *	US-PATENT-CLASS-260-42	c 27	N79-28307 *	US-PATENT-CLASS-260-94.2M	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 18	N72-22567 *	US-PATENT-CLASS-260-448.2D	c 06	N72-25151 *	US-PATENT-CLASS-260-94.2R	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 27	N81-14076 *	US-PATENT-CLASS-260-448.2D	c 06	N73-32030 *	US-PATENT-CLASS-260-94.7R	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 25	N81-19244 *	US-PATENT-CLASS-260-448.2N	c 37	N74-21058 *	US-PATENT-CLASS-260-94.8	c 27	N73-22710 *
US-PATENT-CLASS-260-2.1	c 25	N81-17187 *	US-PATENT-CLASS-260-448.2	c 06	N71-23230 *	US-PATENT-CLASS-260-959	c 27	N73-32256 *
US-PATENT-CLASS-260-2.2R	c 25	N81-17187 *	US-PATENT-CLASS-260-45.7R	c 24	N78-27180 *	US-PATENT-CLASS-260-96D	c 28	N81-15119 *
US-PATENT-CLASS-260-2.2R	c 25	N81-19244 *	US-PATENT-CLASS-260-45.7R	c 27	N82-16238 *	US-PATENT-CLASS-261-DIG.75	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AK	c 27	N76-15310 *	US-PATENT-CLASS-260-45.75W	c 24	N78-27180 *	US-PATENT-CLASS-261-118	c 31	N80-18231 *
US-PATENT-CLASS-260-2.5AK	c 24	N78-24290 *	US-PATENT-CLASS-260-45.7	c 27	N76-24405 *	US-PATENT-CLASS-261-123	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AM	c 27	N74-12812 *	US-PATENT-CLASS-260-45.85N	c 24	N78-27180 *	US-PATENT-CLASS-261-145	c 28	N72-22772 *
US-PATENT-CLASS-260-2.5AM	c 27	N77-31308 *	US-PATENT-CLASS-260-45.9R	c 24	N78-27180 *	US-PATENT-CLASS-261-28	c 07	N81-29129 *
US-PATENT-CLASS-260-2.5AP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5E	c 06	N72-25151 *	US-PATENT-CLASS-261-78A	c 35	N86-29174 *
US-PATENT-CLASS-260-2.5AY	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5G	c 06	N72-25151 *	US-PATENT-CLASS-261-79A	c 54	N81-24724 *
US-PATENT-CLASS-260-2.5A	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5P	c 06	N72-25151 *	US-PATENT-CLASS-263-48	c 15	N69-27483 *
US-PATENT-CLASS-260-2.5BE	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5R	c 06	N73-26100 *	US-PATENT-CLASS-264-DIG.36	c 18	N73-14584 *
US-PATENT-CLASS-260-2.5B	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 06	N71-11237 *	US-PATENT-CLASS-264-DIG.44	c 15	N72-16329 *
US-PATENT-CLASS-260-2.5EP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 06	N71-11240 *	US-PATENT-CLASS-264-DIG.64	c 27	N88-23894 *
US-PATENT-CLASS-260-2.5FP	c 06	N72-25147 *	US-PATENT-CLASS-260-46.5R	c 27	N81-24256 *	US-PATENT-CLASS-264-DIG.65	c 27	N85-20124 *
US-PATENT-CLASS-260-2.5FP	c 27	N74-27037 *	US-PATENT-CLASS-260-46.5R	c 27	N84-22744 *	US-PATENT-CLASS-264-DIG.59	c 27	N89-29539 *
US-PATENT-CLASS-260-2.5FP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 27	N84-22744 *	US-PATENT-CLASS-264-102	c 27	N90-21198 *
US-PATENT-CLASS-260-2.5F	c 18	N73-13562 *	US-PATENT-CLASS-260-47CP	c 06	N73-27980 *	US-PATENT-CLASS-264-102	c 15	N71-10672 *
US-PATENT-CLASS-260-2.5L	c 27	N74-12814 *	US-PATENT-CLASS-260-47CP	c 23	N76-15268 *	US-PATENT-CLASS-264-102	c 15	N73-12489 *
US-PATENT-CLASS-260-2.5N	c 24	N78-15180 *	US-PATENT-CLASS-260-47CP	c 27	N78-31232 *	US-PATENT-CLASS-264-102	c 31	N74-14133 *
US-PATENT-CLASS-260-2.5N	c 27	N78-31232 *	US-PATENT-CLASS-260-47CP	c 27	N78-32261 *	US-PATENT-CLASS-264-102	c 31	N74-18124 *
US-PATENT-CLASS-260-2.5R	c 27	N74-27037 *	US-PATENT-CLASS-260-47UP	c 06	N73-32029 *	US-PATENT-CLASS-264-102	c 37	N76-24575 *
US-PATENT-CLASS-260-2.5R	c 24	N78-15180 *	US-PATENT-CLASS-260-47	c 06	N71-28620 *	US-PATENT-CLASS-264-102	c 15	N79-26100 *
US-PATENT-CLASS-260-2.5	c 06	N71-11242 *	US-PATENT-CLASS-260-47	c 06	N71-28807 *	US-PATENT-CLASS-264-104	c 05	N72-25120 *
US-PATENT-CLASS-260-2.5	c 06	N71-24739 *	US-PATENT-CLASS-260-485F	c 06	N73-30098 *	US-PATENT-CLASS-264-104	c 27	N81-24257 *
US-PATENT-CLASS-260-2.5	c 06	N71-25929 *	US-PATENT-CLASS-260-49	c 27	N78-32261 *	US-PATENT-CLASS-264-104	c 23	N81-29160 *
US-PATENT-CLASS-260-2.5	c 18	N71-26155 *	US-PATENT-CLASS-260-520	c 23	N75-30256 *	US-PATENT-CLASS-264-104	c 25	N83-13188 *
US-PATENT-CLASS-260-2.5	c 06	N72-25150 *	US-PATENT-CLASS-260-535H	c 06	N72-27144 *	US-PATENT-CLASS-264-105	c 27	N81-24257 *
US-PATENT-CLASS-260-2P	c 27	N78-32256 *	US-PATENT-CLASS-260-53	c 27	N79-28307 *	US-PATENT-CLASS-264-111	c 17	N71-29137 *
US-PATENT-CLASS-260-2R	c 37	N74-18126 *	US-PATENT-CLASS-260-544-D	c 27	N86-21675 *	US-PATENT-CLASS-264-112	c 27	N85-20124 *
US-PATENT-CLASS-260-2R	c 27	N74-27037 *	US-PATENT-CLASS-260-544-P	c 27	N87-14515 *	US-PATENT-CLASS-264-114	c 31	N90-19425 *
US-PATENT-CLASS-260-2R	c 27	N78-15276 *	US-PATENT-CLASS-260-544F	c 06	N72-20121 *	US-PATENT-CLASS-264-118	c 24	N80-26388 *
US-PATENT-CLASS-260-211.5	c 06	N72-25149 *	US-PATENT-CLASS-260-544F	c 27	N86-27450 *	US-PATENT-CLASS-264-118	c 24	N84-16262 *
US-PATENT-CLASS-260-240G	c 27	N76-32315 *	US-PATENT-CLASS-260-551P	c 27	N78-32256 *	US-PATENT-CLASS-264-119	c 24	N80-26388 *
US-PATENT-CLASS-260-245.75	c 27	N86-19455 *	US-PATENT-CLASS-260-566B	c 27	N76-32315 *	US-PATENT-CLASS-264-11	c 27	N90-23566 *
US-PATENT-CLASS-260-245.9	c 27	N86-19455 *	US-PATENT-CLASS-260-567.6M	c 06	N73-32029 *	US-PATENT-CLASS-264-120	c 27	N85-20124 *
US-PATENT-CLASS-260-28.5	c 27	N78-33228 *	US-PATENT-CLASS-260-571	c 23	N76-15268 *	US-PATENT-CLASS-264-124	c 24	N80-26388 *
US-PATENT-CLASS-260-29.1R	c 24	N78-24290 *	US-PATENT-CLASS-260-560-5P	c 27	N78-32256 *	US-PATENT-CLASS-264-129	c 37	N76-31524 *
US-PATENT-CLASS-260-29.6RB	c 25	N81-19242 *	US-PATENT-CLASS-260-615	c 06	N71-27254 *	US-PATENT-CLASS-264-12	c 31	N83-35176 *
US-PATENT-CLASS-260-29.6S	c 27	N74-17283 *	US-PATENT-CLASS-260-615	c 06	N73-30101 *	US-PATENT-CLASS-264-130	c 27	N78-32262 *
US-PATENT-CLASS-260-29.6	c 26	N75-27125 *	US-PATENT-CLASS-260-63N	c 27	N78-31232 *	US-PATENT-CLASS-264-135	c 37	N74-18126 *
US-PATENT-CLASS-260-2	c 06	N71-11243 *	US-PATENT-CLASS-260-63N	c 27	N78-32261 *	US-PATENT-CLASS-264-136	c 37	N74-18126 *
US-PATENT-CLASS-260-2	c 06	N71-20717 *	US-PATENT-CLASS-260-63R	c 27	N78-32261 *	US-PATENT-CLASS-264-137	c 27	N79-33316 *
US-PATENT-CLASS-260-2	c 06	N71-20905 *	US-PATENT-CLASS-260-65	c 06	N73-27980 *	US-PATENT-CLASS-264-137	c 27	N81-14078 *
US-PATENT-CLASS-260-2	c 06	N71-27363 *	US-PATENT-CLASS-260-65	c 27	N78-32261 *	US-PATENT-CLASS-264-137	c 27	N81-29229 *
US-PATENT-CLASS-260-2	c 06	N73-30102 *	US-PATENT-CLASS-260-65	c 23	N82-29358 *	US-PATENT-CLASS-264-137	c 27	N83-34041 *
US-PATENT-CLASS-260-2	c 27	N79-21190 *	US-PATENT-CLASS-260-67	c 27	N78-17214 *	US-PATENT-CLASS-264-137	c 27	N85-20124 *
US-PATENT-CLASS-260-30.2	c 06	N73-27980 *	US-PATENT-CLASS-260-67	c 27	N79-21191 *	US-PATENT-CLASS-264-145	c 15	N79-26100 *
US-PATENT-CLASS-260-30.4N	c 27	N78-17205 *	US-PATENT-CLASS-260-72.5	c 06	N71-11236 *	US-PATENT-CLASS-264-151	c 15	N79-26100 *
US-PATENT-CLASS-260-30.8DS	c 06	N73-27980 *	US-PATENT-CLASS-260-72.5	c 06	N71-11239 *	US-PATENT-CLASS-264-152	c 27	N85-20124 *
US-PATENT-CLASS-260-307G	c 27	N79-22300 *	US-PATENT-CLASS-260-72.5	c 06	N71-24740 *	US-PATENT-CLASS-264-157	c 24	N78-17150 *
US-PATENT-CLASS-260-32.2R	c 27	N78-17205 *	US-PATENT-CLASS-260-75NH	c 27	N78-17213 *	US-PATENT-CLASS-264-161	c 37	N76-31524 *
US-PATENT-CLASS-260-32.6NT	c 27	N78-17205 *	US-PATENT-CLASS-260-75NK	c 27	N78-17213 *	US-PATENT-CLASS-264-175	c 15	N79-26100 *
US-PATENT-CLASS-260-32.6N	c 06	N73-27980 *	US-PATENT-CLASS-260-75NT	c 27	N78-17213 *	US-PATENT-CLASS-264-184	c 27	N78-32262 *
US-PATENT-CLASS-260-32.6N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AM	c 27	N78-17213 *	US-PATENT-CLASS-264-1	c 44	N79-24432 *
US-PATENT-CLASS-260-32.8N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AN	c 27	N78-17213 *	US-PATENT-CLASS-264-204	c 27	N86-29039 *
US-PATENT-CLASS-260-326N	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 06	N72-27144 *	US-PATENT-CLASS-264-211	c 27	N78-32262 *
US-PATENT-CLASS-260-326S	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 06	N73-33076 *	US-PATENT-CLASS-264-212	c 27	N80-32516 *
US-PATENT-CLASS-260-33.4R	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5AP	c 27	N77-31308 *	US-PATENT-CLASS-264-212	c 27	N86-31727 *
US-PATENT-CLASS-260-33.4R	c 27	N78-17205 *	US-PATENT-CLASS-260-77.5AP	c 27	N78-17213 *	US-PATENT-CLASS-264-216	c 25	N82-21268 *
US-PATENT-CLASS-260-33.4R	c 27	N81-19296 *	US-PATENT-CLASS-260-77.5AT	c 27	N78-17213 *	US-PATENT-CLASS-264-216	c 27	N86-29039 *
US-PATENT-CLASS-260-33.6EP	c 24	N78-27180 *	US-PATENT-CLASS-260-77.55P	c 27	N78-17213 *	US-PATENT-CLASS-264-217	c 25	N75-12087 *
US-PATENT-CLASS-260-33.6PQ	c 24	N78-27180 *	US-PATENT-CLASS-260-77.5	c 06	N73-30099 *	US-PATENT-CLASS-264-219	c 37	N76-31524 *
US-PATENT-CLASS-260-33.6R	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5	c 06	N73-30100 *	US-PATENT-CLASS-264-220	c 27	N82-28440 *
US-PATENT-CLASS-260-33.6UB	c 27	N81-15104 *	US-PATENT-CLASS-260-77.5	c 06	N73-30103 *	US-PATENT-CLASS-264-221	c 15	N72-16329 *
US-PATENT-CLASS-260-33.8EP	c 24	N78-27180 *	US-PATENT-CLASS-260-78.41	c 27	N78-31232 *	US-PATENT-CLASS-264-225	c 15	N72-16329 *
US-PATENT-CLASS-260-33.8F	c 27	N76-24405 *	US-PATENT-CLASS-260-787F	c 06	N73-27980 *	US-PATENT-CLASS-264-225	c 15	N72-16329 *
US-PATENT-CLASS-260-33.8F	c 25	N81-14016 *	US-PATENT-CLASS-260-787F	c 27	N74-23125 *	US-PATENT-CLASS-264-229	c 24	N81-29163 *
US-PATENT-CLASS-260-33.8UA	c 24	N78-27180 *	US-PATENT-CLASS-260-787F	c 23	N75-30256 *	US-PATENT-CLASS-264-22	c 15	N72-20446 *
US-PATENT-CLASS-260-340.9R	c 23	N82-16174 *	US-PATENT-CLASS-260-787F	c 23	N76-15268 *	US-PATENT-CLASS-264-22	c 14	N72-24439 *
US-PATENT-CLASS-260-346.3	c 23	N75-30256 *	US-PATENT-CLASS-260-787F	c 27	N78-32261 *	US-PATENT-CLASS-264-22	c 25	N75-12087 *
US-PATENT-CLASS-260-346.3	c 23	N76-15268 *	US-PATENT-CLASS-260-78UA	c 06	N73-27980 *	US-PATENT-CLASS-264-22	c 27	N80-32516 *
US-PATENT-CLASS-260-346.3	c 27	N80-32515 *	US-PATENT-CLASS-260-78	c 06	N71-11235 *	US-PATENT-CLASS-264-22	c 27	N82-28440 *
US-PATENT-CLASS-260-348SC	c 06	N72-25148 *	US-PATENT-CLASS-260-78	c 06	N71-11238 *	US-PATENT-CLASS-264-230	c 37	N82-24491 *
US-PATENT-CLASS-260-37EP	c 24	N78-24290 *	US-PATENT-CLASS-260-830S	c 15	N79-26100 *	US-PATENT-CLASS-264-231	c 24	N81-29163 *

US-PATENT-CLASS-264-236	c 27	N78-32262 *	US-PATENT-CLASS-269-152	c 18	N83-29303 *	US-PATENT-CLASS-280-150SB	c 05	N75-25915 *
US-PATENT-CLASS-264-236	c 15	N79-26100 *	US-PATENT-CLASS-269-153	c 44	N79-19447 *	US-PATENT-CLASS-280-432	c 37	N77-14477 *
US-PATENT-CLASS-264-236	c 27	N86-29039 *	US-PATENT-CLASS-269-156	c 37	N80-14398 *	US-PATENT-CLASS-280-47.11	c 85	N87-21755 *
US-PATENT-CLASS-264-236	c 27	N86-31727 *	US-PATENT-CLASS-269-21	c 37	N76-21554 *	US-PATENT-CLASS-280-677	c 37	N90-17153 *
US-PATENT-CLASS-264-236	c 27	N89-29539 *	US-PATENT-CLASS-269-21	c 37	N78-17383 *	US-PATENT-CLASS-280-682	c 37	N90-17153 *
US-PATENT-CLASS-264-23	c 71	N78-10837 *	US-PATENT-CLASS-269-21	c 37	N78-27423 *	US-PATENT-CLASS-280-805	c 37	N82-18601 *
US-PATENT-CLASS-264-23	c 31	N81-15154 *	US-PATENT-CLASS-269-21	c 76	N80-18951 *	US-PATENT-CLASS-285-DIG.21	c 15	N72-25450 *
US-PATENT-CLASS-264-24	c 31	N81-33319 *	US-PATENT-CLASS-269-21	c 37	N81-33482 *	US-PATENT-CLASS-285-DIG.21	c 33	N73-26958 *
US-PATENT-CLASS-264-24	c 31	N83-35176 *	US-PATENT-CLASS-269-224	c 37	N84-28083 *	US-PATENT-CLASS-285-107	c 37	N89-13786 *
US-PATENT-CLASS-264-257	c 37	N74-18126 *	US-PATENT-CLASS-269-242	c 18	N83-29303 *	US-PATENT-CLASS-285-108	c 37	N89-13786 *
US-PATENT-CLASS-264-257	c 27	N89-29539 *	US-PATENT-CLASS-269-242	c 37	N84-28083 *	US-PATENT-CLASS-285-109	c 37	N89-13786 *
US-PATENT-CLASS-264-258	c 24	N81-29163 *	US-PATENT-CLASS-269-244	c 18	N83-29303 *	US-PATENT-CLASS-285-114	c 37	N75-19686 *
US-PATENT-CLASS-264-258	c 27	N83-34041 *	US-PATENT-CLASS-269-244	c 37	N84-28083 *	US-PATENT-CLASS-285-133.1	c 37	N89-13786 *
US-PATENT-CLASS-264-258	c 27	N85-20124 *	US-PATENT-CLASS-269-246	c 35	N88-24927 *	US-PATENT-CLASS-285-137.1	c 35	N87-28884 *
US-PATENT-CLASS-264-259	c 24	N81-29163 *	US-PATENT-CLASS-269-252	c 37	N84-28083 *	US-PATENT-CLASS-285-159	c 37	N82-24494 *
US-PATENT-CLASS-264-267	c 37	N76-24575 *	US-PATENT-CLASS-269-266	c 37	N78-27423 *	US-PATENT-CLASS-285-168	c 54	N86-28619 *
US-PATENT-CLASS-264-27	c 26	N71-17818 *	US-PATENT-CLASS-269-267	c 37	N89-13785 *	US-PATENT-CLASS-285-168	c 54	N86-28620 *
US-PATENT-CLASS-264-28	c 15	N73-12489 *	US-PATENT-CLASS-269-285	c 37	N84-28083 *	US-PATENT-CLASS-285-168	c 54	N86-29507 *
US-PATENT-CLASS-264-28	c 27	N90-23566 *	US-PATENT-CLASS-269-287	c 37	N80-23655 *	US-PATENT-CLASS-285-184	c 54	N86-29507 *
US-PATENT-CLASS-264-291	c 74	N87-28416 *	US-PATENT-CLASS-269-3	c 37	N84-12491 *	US-PATENT-CLASS-285-18	c 15	N72-20445 *
US-PATENT-CLASS-264-294	c 31	N74-13177 *	US-PATENT-CLASS-269-43	c 37	N88-14360 *	US-PATENT-CLASS-285-192	c 20	N78-24275 *
US-PATENT-CLASS-264-3R	c 28	N77-10213 *	US-PATENT-CLASS-269-48.1	c 39	N74-13131 *	US-PATENT-CLASS-285-226	c 37	N75-19686 *
US-PATENT-CLASS-264-3R	c 20	N77-17143 *	US-PATENT-CLASS-269-71	c 37	N88-14360 *	US-PATENT-CLASS-285-226	c 37	N76-14460 *
US-PATENT-CLASS-264-304	c 37	N76-31524 *	US-PATENT-CLASS-269-73	c 37	N88-14360 *	US-PATENT-CLASS-285-226	c 18	N89-28553 *
US-PATENT-CLASS-264-305	c 37	N76-31524 *	US-PATENT-CLASS-27-498	c 15	N73-28515 *	US-PATENT-CLASS-285-227	c 54	N86-29507 *
US-PATENT-CLASS-264-308	c 37	N76-31524 *	US-PATENT-CLASS-272-DIG.1	c 05	N73-32014 *	US-PATENT-CLASS-285-235	c 54	N78-31735 *
US-PATENT-CLASS-264-310	c 37	N76-31524 *	US-PATENT-CLASS-272-DIG.4	c 05	N73-32014 *	US-PATENT-CLASS-285-235	c 54	N79-24651 *
US-PATENT-CLASS-264-311	c 24	N81-29163 *	US-PATENT-CLASS-272-DIG.5	c 05	N73-32014 *	US-PATENT-CLASS-285-24	c 15	N71-10782 *
US-PATENT-CLASS-264-311	c 31	N90-19425 *	US-PATENT-CLASS-272-1R	c 09	N75-15662 *	US-PATENT-CLASS-285-255	c 37	N76-14460 *
US-PATENT-CLASS-264-318	c 37	N76-31524 *	US-PATENT-CLASS-272-57A	c 09	N75-15662 *	US-PATENT-CLASS-285-27	c 15	N70-41808 *
US-PATENT-CLASS-264-331.12	c 27	N85-20124 *	US-PATENT-CLASS-272-70	c 05	N71-28619 *	US-PATENT-CLASS-285-27	c 18	N87-27713 *
US-PATENT-CLASS-264-331.19	c 27	N85-20124 *	US-PATENT-CLASS-272-73	c 14	N73-27377 *	US-PATENT-CLASS-285-302	c 18	N89-25666 *
US-PATENT-CLASS-264-331.46	c 27	N83-34041 *	US-PATENT-CLASS-272-73	c 05	N73-27941 *	US-PATENT-CLASS-285-305	c 37	N87-22977 *
US-PATENT-CLASS-264-331	c 27	N76-16230 *	US-PATENT-CLASS-272-73	c 37	N74-18127 *	US-PATENT-CLASS-285-314	c 15	N71-24903 *
US-PATENT-CLASS-264-332	c 37	N81-25371 *	US-PATENT-CLASS-272-79C	c 05	N73-32014 *	US-PATENT-CLASS-285-316	c 15	N72-25450 *
US-PATENT-CLASS-264-332	c 27	N87-28656 *	US-PATENT-CLASS-272-80	c 37	N74-18127 *	US-PATENT-CLASS-285-316	c 33	N73-26958 *
US-PATENT-CLASS-264-334	c 37	N76-31524 *	US-PATENT-CLASS-273-1E	c 05	N73-13114 *	US-PATENT-CLASS-285-317	c 15	N71-24903 *
US-PATENT-CLASS-264-33	c 44	N79-24432 *	US-PATENT-CLASS-273-240	c 31	N83-34073 *	US-PATENT-CLASS-285-31	c 18	N87-27713 *
US-PATENT-CLASS-264-342R	c 37	N82-24491 *	US-PATENT-CLASS-274-4R	c 09	N72-11224 *	US-PATENT-CLASS-285-326	c 37	N79-11402 *
US-PATENT-CLASS-264-345	c 71	N78-10837 *	US-PATENT-CLASS-277-105	c 37	N82-24490 *	US-PATENT-CLASS-285-327	c 37	N91-14610 *
US-PATENT-CLASS-264-347	c 27	N86-29039 *	US-PATENT-CLASS-277-116.6	c 37	N84-11497 *	US-PATENT-CLASS-285-331	c 15	N70-41629 *
US-PATENT-CLASS-264-347	c 27	N89-29539 *	US-PATENT-CLASS-277-124	c 37	N84-11497 *	US-PATENT-CLASS-285-33	c 15	N72-25450 *
US-PATENT-CLASS-264-34	c 44	N79-24432 *	US-PATENT-CLASS-277-134	c 37	N75-21631 *	US-PATENT-CLASS-285-345	c 15	N72-20445 *
US-PATENT-CLASS-264-35	c 44	N79-24432 *	US-PATENT-CLASS-277-134	c 07	N78-25090 *	US-PATENT-CLASS-285-351	c 37	N89-13786 *
US-PATENT-CLASS-264-36	c 15	N73-12489 *	US-PATENT-CLASS-277-135	c 37	N85-29284 *	US-PATENT-CLASS-285-359	c 37	N79-11402 *
US-PATENT-CLASS-264-36	c 32	N74-27612 *	US-PATENT-CLASS-277-13	c 15	N71-26294 *	US-PATENT-CLASS-285-361	c 37	N91-14613 *
US-PATENT-CLASS-264-3	c 28	N71-26779 *	US-PATENT-CLASS-277-153	c 37	N80-28711 *	US-PATENT-CLASS-285-373	c 18	N87-27713 *
US-PATENT-CLASS-264-40.1	c 27	N89-29539 *	US-PATENT-CLASS-277-153	c 37	N81-26447 *	US-PATENT-CLASS-285-37	c 37	N82-24490 *
US-PATENT-CLASS-264-40.1	c 27	N90-23544 *	US-PATENT-CLASS-277-158	c 37	N90-23751 *	US-PATENT-CLASS-285-38	c 15	N71-24903 *
US-PATENT-CLASS-264-40.4	c 35	N80-18357 *	US-PATENT-CLASS-277-164	c 37	N84-11497 *	US-PATENT-CLASS-285-39	c 37	N89-13786 *
US-PATENT-CLASS-264-40.5	c 27	N89-29539 *	US-PATENT-CLASS-277-177	c 37	N84-11497 *	US-PATENT-CLASS-285-3	c 15	N69-27490 *
US-PATENT-CLASS-264-40.6	c 27	N89-29539 *	US-PATENT-CLASS-277-181	c 37	N81-15363 *	US-PATENT-CLASS-285-3	c 15	N72-25450 *
US-PATENT-CLASS-264-40	c 15	N73-12489 *	US-PATENT-CLASS-277-189	c 37	N82-16408 *	US-PATENT-CLASS-285-401	c 37	N82-24494 *
US-PATENT-CLASS-264-41	c 25	N81-19244 *	US-PATENT-CLASS-277-190	c 37	N84-11497 *	US-PATENT-CLASS-285-406	c 15	N71-24903 *
US-PATENT-CLASS-264-41	c 51	N84-28361 *	US-PATENT-CLASS-277-192	c 37	N79-22474 *	US-PATENT-CLASS-285-410	c 05	N72-11085 *
US-PATENT-CLASS-264-43	c 27	N90-23566 *	US-PATENT-CLASS-277-193	c 37	N80-28711 *	US-PATENT-CLASS-285-421	c 18	N87-27713 *
US-PATENT-CLASS-264-453	c 25	N82-21268 *	US-PATENT-CLASS-277-193	c 37	N81-26447 *	US-PATENT-CLASS-285-45	c 15	N71-28937 *
US-PATENT-CLASS-264-4	c 34	N90-23700 *	US-PATENT-CLASS-277-1	c 37	N82-24490 *	US-PATENT-CLASS-285-81	c 37	N87-22977 *
US-PATENT-CLASS-264-50	c 27	N88-23894 *	US-PATENT-CLASS-277-204	c 37	N82-24490 *	US-PATENT-CLASS-285-82	c 37	N91-14613 *
US-PATENT-CLASS-264-510	c 44	N79-24432 *	US-PATENT-CLASS-277-224	c 37	N80-28711 *	US-PATENT-CLASS-285-85	c 37	N87-22977 *
US-PATENT-CLASS-264-516	c 44	N79-24432 *	US-PATENT-CLASS-277-229	c 37	N81-15363 *	US-PATENT-CLASS-285-86	c 18	N87-27713 *
US-PATENT-CLASS-264-53	c 25	N82-21268 *	US-PATENT-CLASS-277-25	c 15	N69-21362 *	US-PATENT-CLASS-285-89	c 37	N82-24494 *
US-PATENT-CLASS-264-59	c 24	N84-16262 *	US-PATENT-CLASS-277-25	c 15	N71-19570 *	US-PATENT-CLASS-285-901	c 35	N87-28884 *
US-PATENT-CLASS-264-5	c 31	N81-33319 *	US-PATENT-CLASS-277-25	c 15	N72-29488 *	US-PATENT-CLASS-285-91	c 37	N87-22977 *
US-PATENT-CLASS-264-5	c 27	N82-28442 *	US-PATENT-CLASS-277-25	c 37	N74-10474 *	US-PATENT-CLASS-285-97	c 37	N89-13786 *
US-PATENT-CLASS-264-5	c 31	N83-31896 *	US-PATENT-CLASS-277-25	c 07	N78-25090 *	US-PATENT-CLASS-287-119	c 15	N70-41829 *
US-PATENT-CLASS-264-5	c 31	N83-35176 *	US-PATENT-CLASS-277-27	c 15	N72-29488 *	US-PATENT-CLASS-287-189.365	c 15	N71-26312 *
US-PATENT-CLASS-264-5	c 26	N86-32551 *	US-PATENT-CLASS-277-27	c 37	N74-10474 *	US-PATENT-CLASS-287-189.36	c 15	N71-10799 *
US-PATENT-CLASS-264-60	c 27	N76-22376 *	US-PATENT-CLASS-277-27	c 37	N74-15125 *	US-PATENT-CLASS-287-54A	c 11	N72-25287 *
US-PATENT-CLASS-264-60	c 27	N79-14213 *	US-PATENT-CLASS-277-27	c 37	N75-21631 *	US-PATENT-CLASS-287-85R	c 15	N73-12488 *
US-PATENT-CLASS-264-60	c 24	N84-16262 *	US-PATENT-CLASS-277-27	c 37	N82-12442 *	US-PATENT-CLASS-287-92	c 31	N73-32749 *
US-PATENT-CLASS-264-60	c 27	N87-28656 *	US-PATENT-CLASS-277-2	c 37	N82-24490 *	US-PATENT-CLASS-287-DIG.1	c 44	N81-14389 *
US-PATENT-CLASS-264-63	c 27	N76-22376 *	US-PATENT-CLASS-277-34	c 37	N90-23751 *	US-PATENT-CLASS-287-DIG.24	c 24	N75-33181 *
US-PATENT-CLASS-264-63	c 27	N87-28656 *	US-PATENT-CLASS-277-40	c 37	N75-21631 *	US-PATENT-CLASS-287-DIG.35	c 37	N77-23482 *
US-PATENT-CLASS-264-65	c 18	N73-14584 *	US-PATENT-CLASS-277-40	c 37	N82-12442 *	US-PATENT-CLASS-287-DIG.39	c 24	N75-33181 *
US-PATENT-CLASS-264-66	c 27	N76-22376 *	US-PATENT-CLASS-277-41	c 37	N76-22541 *	US-PATENT-CLASS-287-125	c 37	N79-10422 *
US-PATENT-CLASS-264-6	c 27	N90-23566 *	US-PATENT-CLASS-277-4	c 37	N76-22541 *	US-PATENT-CLASS-287-148.4A	c 37	N74-15128 *
US-PATENT-CLASS-264-70	c 44	N79-24432 *	US-PATENT-CLASS-277-4	c 37	N82-24490 *	US-PATENT-CLASS-287-148.4B	c 37	N74-15128 *
US-PATENT-CLASS-264-71	c 44	N79-24432 *	US-PATENT-CLASS-277-53	c 37	N86-20788 *	US-PATENT-CLASS-287-148.4	c 15	N71-16052 *
US-PATENT-CLASS-264-90	c 24	N78-17150 *	US-PATENT-CLASS-277-59	c 37	N82-24490 *	US-PATENT-CLASS-287-148.4	c 15	N71-17688 *
US-PATENT-CLASS-264-92	c 15	N71-17803 *	US-PATENT-CLASS-277-62	c 37	N79-22475 *	US-PATENT-CLASS-287-155.55	c 15	N71-15986 *
US-PATENT-CLASS-264-92	c 15	N72-24522 *	US-PATENT-CLASS-277-72R	c 37	N82-24490 *	US-PATENT-CLASS-287-156.5-R	c 24	N87-27742 *
US-PATENT-CLASS-264-9	c 31	N81-33319 *	US-PATENT-CLASS-277-74	c 15	N72-29488 *	US-PATENT-CLASS-287-156.8R	c 37	N78-24544 *
US-PATENT-CLASS-264-9	c 31	N83-31896 *	US-PATENT-CLASS-277-74	c 37	N76-22541 *	US-PATENT-CLASS-287-157.3H	c 74	N83-19596 *
US-PATENT-CLASS-266-119	c 26	N80-28492 *	US-PATENT-CLASS-277-80	c 37	N85-29284 *	US-PATENT-CLASS-287-157.3R	c 34	N74-18552 *
US-PATENT-CLASS-266-19	c 15	N70-33382 *	US-PATENT-CLASS-277-81R	c 37	N82-16408 *	US-PATENT-CLASS-287-157.3	c 28	N70-41818 *
US-PATENT-CLASS-266-249	c 26	N80-28492 *	US-PATENT-CLASS-277-91	c 37	N74-15125 *	US-PATENT-CLASS-287-157	c 28	N71-15658 *
US-PATENT-CLASS-266-24	c 17	N72-28535 *	US-PATENT-CLASS-277-93R	c 37	N76-22541 *	US-PATENT-CLASS-287-182.1	c 18	N71-23710 *
US-PATENT-CLASS-266-274	c 26	N80-28492 *	US-PATENT-CLASS-277-93R	c 37	N82-12442 *	US-PATENT-CLASS-287-182.2	c 17	N71-23046 *
US-PATENT-CLASS-267-150	c 37	N85-34401 *	US-PATENT-CLASS-277-96.1	c 37	N79-22475 *	US-PATENT-CLASS-287-182.2	c 37	N75-26371 *
US-PATENT-CLASS-267-166	c 34	N74-18552 *	US-PATENT-CLASS-277-96	c 37	N74-10474 *	US-PATENT-CLASS-287-182.5	c 17	N72-28536 *
US-PATENT-CLASS-267-1	c 15	N69-27504 *	US-PATENT-CLASS-277-96	c 37	N81-24442 *	US-PATENT-CLASS-287-182.5	c 37	N75-26371 *
US-PATENT-CLASS-267-1	c 15	N70-38225 *	US-PATENT-CLASS-279-1B	c 37	N75-33395 *	US-PATENT-CLASS-287-182.5	c 27	N76-15311 *
US-PATENT-CLASS-267-64	c 15	N71-21530 *	US-PATENT-CLASS-279-107	c 37	N75-33395 *	US-PATENT-CLASS-287-182.5	c 27	N77-13217 *
US-PATENT-CLASS-267-8R	c 37	N85-34401 *	US-PATENT-CLASS-279-3	c 37	N78-17383 *	US-PATENT-CLASS-287-182	c 37	N74-13179 *
US-PATENT-CLASS-267-147	c 35	N88-24927 *	US-PATENT-CLASS-279-89	c 37	N75-33395 *	US-PATENT-CLASS-287-182	c 34	N76-27515 *

US-PATENT-CLASS-29-183.5	c 17	N70-38490 *	US-PATENT-CLASS-29-498	c 15	N73-33383 *	US-PATENT-CLASS-29-623.5	c 44	N84-28205 *
US-PATENT-CLASS-29-193	c 34	N76-27515 *	US-PATENT-CLASS-29-498	c 37	N74-11301 *	US-PATENT-CLASS-29-624	c 15	N72-20444 *
US-PATENT-CLASS-29-194	c 26	N75-19408 *	US-PATENT-CLASS-29-498	c 37	N74-18128	US-PATENT-CLASS-29-624	c 14	N73-13417 *
US-PATENT-CLASS-29-194	c 44	N76-14595 *	US-PATENT-CLASS-29-498	c 37	N74-21055 *	US-PATENT-CLASS-29-627	c 14	N80-14474 *
US-PATENT-CLASS-29-195A	c 27	N76-16229 *	US-PATENT-CLASS-29-502	c 09	N72-25261 *	US-PATENT-CLASS-29-628	c 15	N72-22491 *
US-PATENT-CLASS-29-195Y	c 14	N73-32320 *	US-PATENT-CLASS-29-503	c 37	N74-11301 *	US-PATENT-CLASS-29-628	c 09	N72-25261 *
US-PATENT-CLASS-29-195	c 44	N76-14595 *	US-PATENT-CLASS-29-504	c 37	N74-21055 *	US-PATENT-CLASS-29-628	c 09	N73-28083 *
US-PATENT-CLASS-29-196.2	c 17	N73-32414 *	US-PATENT-CLASS-29-504	c 37	N75-13261 *	US-PATENT-CLASS-29-628	c 33	N77-26385 *
US-PATENT-CLASS-29-196.2	c 26	N75-19408 *	US-PATENT-CLASS-29-517	c 15	N71-17650 *	US-PATENT-CLASS-29-628	c 44	N78-25528 *
US-PATENT-CLASS-29-196.6	c 17	N73-32414 *	US-PATENT-CLASS-29-521	c 26	N83-10170	US-PATENT-CLASS-29-629	c 09	N73-28083 *
US-PATENT-CLASS-29-196.6	c 37	N75-13261 *	US-PATENT-CLASS-29-526	c 37	N76-19437 *	US-PATENT-CLASS-29-630A	c 05	N72-25121 *
US-PATENT-CLASS-29-196.6	c 26	N75-19408 *	US-PATENT-CLASS-29-526	c 39	N76-31562 *	US-PATENT-CLASS-29-630A	c 09	N73-28083 *
US-PATENT-CLASS-29-197	c 17	N73-32414 *	US-PATENT-CLASS-29-527.2	c 15	N72-20444 *	US-PATENT-CLASS-29-630E	c 33	N77-26385 *
US-PATENT-CLASS-29-197	c 37	N75-13261 *	US-PATENT-CLASS-29-527.2	c 15	N73-32360 *	US-PATENT-CLASS-29-630	c 09	N73-28083 *
US-PATENT-CLASS-29-197	c 26	N75-19408 *	US-PATENT-CLASS-29-527.2	c 37	N74-11301 *	US-PATENT-CLASS-29-739	c 44	N79-24431 *
US-PATENT-CLASS-29-197	c 44	N76-14595 *	US-PATENT-CLASS-29-527.2	c 24	N75-33181 *	US-PATENT-CLASS-29-764	c 60	N82-24839 *
US-PATENT-CLASS-29-198	c 17	N70-33288 *	US-PATENT-CLASS-29-527.2	c 24	N77-19171 *	US-PATENT-CLASS-29-809	c 44	N79-24431 *
US-PATENT-CLASS-29-198	c 09	N72-25259 *	US-PATENT-CLASS-29-57.4	c 44	N79-24431 *	US-PATENT-CLASS-29-81C	c 75	N78-27913 *
US-PATENT-CLASS-29-203H	c 37	N74-32918 *	US-PATENT-CLASS-29-570	c 26	N72-28761 *	US-PATENT-CLASS-29-81D	c 37	N76-18454 *
US-PATENT-CLASS-29-203MW	c 33	N74-26977 *	US-PATENT-CLASS-29-571	c 35	N75-13213 *	US-PATENT-CLASS-29-825	c 44	N84-28205 *
US-PATENT-CLASS-29-203V	c 15	N73-14468 *	US-PATENT-CLASS-29-571	c 33	N78-27326 *	US-PATENT-CLASS-29-832	c 44	N81-14389 *
US-PATENT-CLASS-29-23.5	c 37	N78-24544 *	US-PATENT-CLASS-29-571	c 33	N81-26360 *	US-PATENT-CLASS-29-888.046	c 37	N90-22042 *
US-PATENT-CLASS-29-234	c 15	N70-36901 *	US-PATENT-CLASS-29-572	c 09	N71-23027 *	US-PATENT-CLASS-290-1-R	c 33	N87-23904 *
US-PATENT-CLASS-29-244	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 03	N71-24681 *	US-PATENT-CLASS-290-1R	c 44	N85-21769 *
US-PATENT-CLASS-29-25.14	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 03	N72-22041 *	US-PATENT-CLASS-290-4R	c 44	N85-21689 *
US-PATENT-CLASS-29-25.14	c 35	N82-24471 *	US-PATENT-CLASS-29-572	c 44	N74-14784 *	US-PATENT-CLASS-290-4R	c 03	N71-11057 *
US-PATENT-CLASS-29-25.18	c 09	N71-26678 *	US-PATENT-CLASS-29-572	c 44	N76-14600 *	US-PATENT-CLASS-290-44	c 37	N90-23742 *
US-PATENT-CLASS-29-25.18	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 44	N76-28635 *	US-PATENT-CLASS-290-44	c 05	N91-14345 *
US-PATENT-CLASS-29-25.18	c 20	N75-18310 *	US-PATENT-CLASS-29-572	c 44	N77-10635 *	US-PATENT-CLASS-290-52	c 37	N77-32500 *
US-PATENT-CLASS-29-25.18	c 20	N76-21276 *	US-PATENT-CLASS-29-572	c 44	N78-24609 *	US-PATENT-CLASS-290-52	c 37	N77-32501 *
US-PATENT-CLASS-29-25.35	c 35	N80-20559 *	US-PATENT-CLASS-29-572	c 44	N78-25527 *	US-PATENT-CLASS-290-53	c 44	N80-29834 *
US-PATENT-CLASS-29-25.42	c 26	N72-28762 *	US-PATENT-CLASS-29-572	c 44	N78-25528 *	US-PATENT-CLASS-290-55	c 44	N84-23018 *
US-PATENT-CLASS-29-252	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 44	N78-25529 *	US-PATENT-CLASS-290-55	c 37	N90-23742 *
US-PATENT-CLASS-29-26A	c 37	N75-33395 *	US-PATENT-CLASS-29-572	c 44	N79-11468 *	US-PATENT-CLASS-290-55	c 05	N91-14345 *
US-PATENT-CLASS-29-267	c 60	N82-24839 *	US-PATENT-CLASS-29-572	c 44	N79-11472 *	US-PATENT-CLASS-292-DIG.14	c 37	N75-19685 *
US-PATENT-CLASS-29-268	c 37	N74-32918 *	US-PATENT-CLASS-29-572	c 44	N79-17314 *	US-PATENT-CLASS-292-DIG.49	c 37	N87-25582 *
US-PATENT-CLASS-29-271	c 15	N70-41371 *	US-PATENT-CLASS-29-572	c 44	N79-18444 *	US-PATENT-CLASS-292-108	c 37	N75-19685 *
US-PATENT-CLASS-29-278R	c 15	N71-29133 *	US-PATENT-CLASS-29-572	c 44	N79-24431 *	US-PATENT-CLASS-292-110	c 37	N77-32499 *
US-PATENT-CLASS-29-400	c 05	N71-12345 *	US-PATENT-CLASS-29-572	c 44	N79-26475 *	US-PATENT-CLASS-292-122	c 37	N75-19685 *
US-PATENT-CLASS-29-402.16	c 37	N86-32736 *	US-PATENT-CLASS-29-572	c 44	N79-31752 *	US-PATENT-CLASS-292-201	c 37	N87-25582 *
US-PATENT-CLASS-29-412	c 15	N72-20444 *	US-PATENT-CLASS-29-572	c 44	N80-14474 *	US-PATENT-CLASS-292-252	c 37	N85-21649 *
US-PATENT-CLASS-29-419	c 24	N75-28135 *	US-PATENT-CLASS-29-572	c 44	N82-28780 *	US-PATENT-CLASS-292-27	c 37	N90-17154 *
US-PATENT-CLASS-29-420.5	c 26	N74-10521 *	US-PATENT-CLASS-29-572	c 44	N82-29709 *	US-PATENT-CLASS-292-34	c 37	N90-17154 *
US-PATENT-CLASS-29-420.5	c 37	N74-13179 *	US-PATENT-CLASS-29-572	c 44	N83-13579 *	US-PATENT-CLASS-292-64	c 37	N87-25582 *
US-PATENT-CLASS-29-420.5	c 37	N75-26371 *	US-PATENT-CLASS-29-572	c 76	N86-20150 *	US-PATENT-CLASS-294-1R	c 35	N76-16392 *
US-PATENT-CLASS-29-420	c 24	N75-13032 *	US-PATENT-CLASS-29-572	c 44	N86-32875 *	US-PATENT-CLASS-294-106	c 37	N81-14320 *
US-PATENT-CLASS-29-421E	c 37	N79-13364 *	US-PATENT-CLASS-29-573	c 14	N73-13417 *	US-PATENT-CLASS-294-106	c 37	N88-23979 *
US-PATENT-CLASS-29-421	c 15	N71-29018 *	US-PATENT-CLASS-29-575	c 76	N87-15882 *	US-PATENT-CLASS-294-106	c 37	N90-20408 *
US-PATENT-CLASS-29-421	c 14	N72-22439 *	US-PATENT-CLASS-29-576-E	c 76	N87-15882 *	US-PATENT-CLASS-294-106	c 37	N91-14616 *
US-PATENT-CLASS-29-421	c 37	N76-14461 *	US-PATENT-CLASS-29-576-J	c 76	N87-15882 *	US-PATENT-CLASS-294-111	c 37	N91-14616 *
US-PATENT-CLASS-29-423	c 15	N70-36409 *	US-PATENT-CLASS-29-576-W	c 76	N87-15882 *	US-PATENT-CLASS-294-113	c 37	N80-14398 *
US-PATENT-CLASS-29-423	c 31	N74-21059 *	US-PATENT-CLASS-29-576B	c 44	N86-32875 *	US-PATENT-CLASS-294-113	c 37	N88-23979 *
US-PATENT-CLASS-29-423	c 52	N84-28389 *	US-PATENT-CLASS-29-576E	c 76	N85-30922 *	US-PATENT-CLASS-294-116	c 37	N75-33395 *
US-PATENT-CLASS-29-426	c 15	N72-20444 *	US-PATENT-CLASS-29-576J	c 35	N82-31659 *	US-PATENT-CLASS-294-116	c 37	N82-32731 *
US-PATENT-CLASS-29-428	c 15	N71-17686 *	US-PATENT-CLASS-29-576J	c 76	N85-30922 *	US-PATENT-CLASS-294-119.1	c 37	N91-14615 *
US-PATENT-CLASS-29-432	c 37	N76-19437 *	US-PATENT-CLASS-29-576S	c 35	N82-31659 *	US-PATENT-CLASS-294-119.2	c 37	N88-23979 *
US-PATENT-CLASS-29-433	c 37	N76-19437 *	US-PATENT-CLASS-29-576W	c 76	N85-30922 *	US-PATENT-CLASS-294-15	c 15	N71-29133 *
US-PATENT-CLASS-29-446	c 37	N83-36482 *	US-PATENT-CLASS-29-577	c 44	N79-26475 *	US-PATENT-CLASS-294-16	c 37	N88-23979 *
US-PATENT-CLASS-29-447	c 37	N77-23482 *	US-PATENT-CLASS-29-578	c 26	N72-17820 *	US-PATENT-CLASS-294-19R	c 35	N76-16392 *
US-PATENT-CLASS-29-451	c 52	N84-28389 *	US-PATENT-CLASS-29-578	c 33	N78-27326 *	US-PATENT-CLASS-294-83	c 15	N71-24897 *
US-PATENT-CLASS-29-452	c 15	N73-30457 *	US-PATENT-CLASS-29-578	c 44	N79-18444 *	US-PATENT-CLASS-294-86.33	c 37	N75-33395 *
US-PATENT-CLASS-29-458	c 26	N83-10170 *	US-PATENT-CLASS-29-578	c 44	N79-26475 *	US-PATENT-CLASS-294-86.4	c 37	N90-20408 *
US-PATENT-CLASS-29-460	c 37	N74-11301 *	US-PATENT-CLASS-29-578	c 33	N81-26360 *	US-PATENT-CLASS-294-86R	c 37	N80-14398 *
US-PATENT-CLASS-29-460	c 37	N75-13261 *	US-PATENT-CLASS-29-578	c 76	N85-30922 *	US-PATENT-CLASS-294-86R	c 37	N81-27519 *
US-PATENT-CLASS-29-463	c 07	N78-33101 *	US-PATENT-CLASS-29-578	c 76	N87-15882 *	US-PATENT-CLASS-294-86R	c 18	N83-29303 *
US-PATENT-CLASS-29-467	c 39	N76-31562 *	US-PATENT-CLASS-29-580	c 09	N73-27150 *	US-PATENT-CLASS-294-88	c 37	N89-13785 *
US-PATENT-CLASS-29-470.1	c 37	N74-21057 *	US-PATENT-CLASS-29-580	c 44	N79-26475 *	US-PATENT-CLASS-294-93	c 54	N81-26718 *
US-PATENT-CLASS-29-470.1	c 37	N75-12326 *	US-PATENT-CLASS-29-580	c 33	N81-26360 *	US-PATENT-CLASS-296-1S	c 85	N82-33288 *
US-PATENT-CLASS-29-472.7	c 37	N75-15992 *	US-PATENT-CLASS-29-580	c 35	N87-14671 *	US-PATENT-CLASS-296-1S	c 02	N88-14071 *
US-PATENT-CLASS-29-472.9	c 15	N69-39786 *	US-PATENT-CLASS-29-588	c 14	N71-27334 *	US-PATENT-CLASS-296-100	c 37	N87-17036 *
US-PATENT-CLASS-29-472.9	c 26	N71-16037 *	US-PATENT-CLASS-29-588	c 14	N72-31466 *	US-PATENT-CLASS-296-20	c 85	N87-21755 *
US-PATENT-CLASS-29-472.9	c 15	N72-22492 *	US-PATENT-CLASS-29-588	c 44	N74-14784 *	US-PATENT-CLASS-296-24C	c 85	N82-33288 *
US-PATENT-CLASS-29-473.1	c 15	N72-22487 *	US-PATENT-CLASS-29-588	c 44	N80-14474 *	US-PATENT-CLASS-296-91	c 85	N82-33288 *
US-PATENT-CLASS-29-473.1	c 15	N72-22492 *	US-PATENT-CLASS-29-589	c 26	N72-17820 *	US-PATENT-CLASS-297-DIG.5	c 03	N84-33394 *
US-PATENT-CLASS-29-473.1	c 37	N75-15992 *	US-PATENT-CLASS-29-589	c 09	N72-25261 *	US-PATENT-CLASS-297-216	c 05	N70-35152 *
US-PATENT-CLASS-29-475	c 37	N75-12326 *	US-PATENT-CLASS-29-589	c 15	N73-14469 *	US-PATENT-CLASS-297-216	c 37	N88-23982 *
US-PATENT-CLASS-29-482	c 05	N72-25121 *	US-PATENT-CLASS-29-589	c 44	N79-31752 *	US-PATENT-CLASS-297-232	c 05	N72-11085 *
US-PATENT-CLASS-29-482	c 37	N74-18128 *	US-PATENT-CLASS-29-590	c 09	N72-22199 *	US-PATENT-CLASS-297-385	c 05	N71-12341 *
US-PATENT-CLASS-29-487	c 15	N73-33383 *	US-PATENT-CLASS-29-591	c 15	N73-14469 *	US-PATENT-CLASS-297-385	c 05	N75-25915 *
US-PATENT-CLASS-29-487	c 37	N74-21055 *	US-PATENT-CLASS-29-591	c 44	N79-18444 *	US-PATENT-CLASS-297-386	c 15	N73-30460 *
US-PATENT-CLASS-29-488	c 15	N70-33311 *	US-PATENT-CLASS-29-591	c 35	N87-14671 *	US-PATENT-CLASS-297-388	c 05	N75-25915 *
US-PATENT-CLASS-29-488	c 37	N74-18128 *	US-PATENT-CLASS-29-592	c 35	N75-13213 *	US-PATENT-CLASS-297-389	c 05	N75-25915 *
US-PATENT-CLASS-29-492	c 15	N71-20443 *	US-PATENT-CLASS-29-597	c 33	N77-26385 *	US-PATENT-CLASS-297-68	c 05	N71-12343 *
US-PATENT-CLASS-29-492	c 09	N72-25261 *	US-PATENT-CLASS-29-599	c 15	N72-25447 *	US-PATENT-CLASS-297-68	c 05	N72-11085 *
US-PATENT-CLASS-29-494	c 15	N73-33383 *	US-PATENT-CLASS-29-599	c 26	N73-26752 *	US-PATENT-CLASS-299-13	c 43	N81-26509 *
US-PATENT-CLASS-29-494	c 37	N74-21055 *	US-PATENT-CLASS-29-599	c 26	N73-32571 *	US-PATENT-CLASS-299-17	c 43	N81-26509 *
US-PATENT-CLASS-29-494	c 37	N75-13261 *	US-PATENT-CLASS-29-603	c 08	N71-27210 *	US-PATENT-CLASS-299-1	c 43	N79-26439 *
US-PATENT-CLASS-29-495	c 15	N71-21078 *	US-PATENT-CLASS-29-604	c 24	N75-13032 *	US-PATENT-CLASS-299-1	c 35	N84-33768 *
US-PATENT-CLASS-29-497.5	c 15	N73-28515 *	US-PATENT-CLASS-29-610SG	c 35	N85-21598 *	US-PATENT-CLASS-299-20	c 43	N81-26509 *
US-PATENT-CLASS-29-497.5	c 15	N73-33383 *	US-PATENT-CLASS-29-610	c 24	N75-30260 *	US-PATENT-CLASS-299-67	c 46	N74-23068 *
US-PATENT-CLASS-29-497.5	c 37	N74-11300 *	US-PATENT-CLASS-29-613	c 24	N75-30260 *	US-PATENT-CLASS-299-86	c 46	N74-23068 *
US-PATENT-CLASS-29-497.5	c 37	N75-13261 *	US-PATENT-CLASS-29-613	c 35	N82-24470 *	US-PATENT-CLASS-3-1.1	c 05	N73-32013 *
US-PATENT-CLASS-29-497	c 09	N72-25261 *	US-PATENT-CLASS-29-620	c 35	N82-31659 *	US-PATENT-CLASS-3-1.1	c 52	N77-14738 *
US-PATENT-CLASS-29-497	c 15	N73-32358 *	US-PATENT-CLASS-29-622	c 33	N77-26385 *	US-PATENT-CLASS-3-1.1	c 54	N79-24652 *
US-PATENT-CLASS-29-497	c 37	N74-18128 *	US-PATENT-CLASS-29-623.5	c 44	N83-32176 *	US-PATENT-CLASS-3-1.1	c 74	N84-11921 *
US-PATENT-CLASS-29-498	c 09	N72-25261 *	US-PATENT-CLASS-29-623.5	c 26	N84-22734 *	US-PATENT-CLASS-3-1.2	c 52	N77-14735 *

US-PATENT-CLASS-3-1.2	c 52	N78-10686 *	US-PATENT-CLASS-307-233	c 10	N73-26229 *	US-PATENT-CLASS-307-299	c 26	N72-21701 *
US-PATENT-CLASS-3-1.9	c 27	N78-17215 *	US-PATENT-CLASS-307-233	c 33	N77-13315 *	US-PATENT-CLASS-307-29	c 03	N73-31988 *
US-PATENT-CLASS-3-1.9	c 52	N79-26772 *	US-PATENT-CLASS-307-234	c 10	N71-23315 *	US-PATENT-CLASS-307-300	c 10	N71-27126 *
US-PATENT-CLASS-3-12.5	c 54	N78-17676 *	US-PATENT-CLASS-307-234	c 09	N71-27016 *	US-PATENT-CLASS-307-303	c 08	N72-21198 *
US-PATENT-CLASS-3-12.5	c 54	N79-24652 *	US-PATENT-CLASS-307-234	c 08	N71-29138 *	US-PATENT-CLASS-307-304	c 09	N72-22201 *
US-PATENT-CLASS-3-12	c 05	N73-32013 *	US-PATENT-CLASS-307-235R	c 33	N75-18479 *	US-PATENT-CLASS-307-304	c 09	N73-20232 *
US-PATENT-CLASS-3-12	c 52	N79-26772 *	US-PATENT-CLASS-307-235	c 10	N71-19471 *	US-PATENT-CLASS-307-304	c 33	N74-34638 *
US-PATENT-CLASS-3-14	c 52	N77-14735 *	US-PATENT-CLASS-307-235	c 09	N71-23545 *	US-PATENT-CLASS-307-305	c 09	N72-23171 *
US-PATENT-CLASS-3-15	c 52	N78-10686 *	US-PATENT-CLASS-307-235	c 10	N71-24862 *	US-PATENT-CLASS-307-306	c 33	N78-13320 *
US-PATENT-CLASS-3-1	c 52	N77-25772 *	US-PATENT-CLASS-307-237	c 09	N72-22200 *	US-PATENT-CLASS-307-306	c 33	N81-17348 *
US-PATENT-CLASS-3-21	c 54	N77-30749 *	US-PATENT-CLASS-307-237	c 32	N74-19788 *	US-PATENT-CLASS-307-308	c 14	N73-28488 *
US-PATENT-CLASS-3-29	c 52	N78-10686 *	US-PATENT-CLASS-307-238	c 33	N75-31331 *	US-PATENT-CLASS-307-309	c 35	N75-13213 *
US-PATENT-CLASS-3-2	c 05	N73-32013 *	US-PATENT-CLASS-307-238	c 33	N77-21314 *	US-PATENT-CLASS-307-310	c 09	N73-14214 *
US-PATENT-CLASS-3-2	c 54	N77-30749 *	US-PATENT-CLASS-307-241	c 09	N72-22201 *	US-PATENT-CLASS-307-311	c 14	N72-18411 *
US-PATENT-CLASS-3-2	c 52	N79-26772 *	US-PATENT-CLASS-307-242	c 10	N73-13235 *	US-PATENT-CLASS-307-311	c 08	N72-21198 *
US-PATENT-CLASS-3-6	c 05	N73-32013 *	US-PATENT-CLASS-307-243	c 09	N71-12516 *	US-PATENT-CLASS-307-311	c 09	N73-14214 *
US-PATENT-CLASS-30-102	c 37	N82-26672 *	US-PATENT-CLASS-307-243	c 08	N72-22162 *	US-PATENT-CLASS-307-313	c 10	N72-20221 *
US-PATENT-CLASS-30-180	c 37	N84-28085 *	US-PATENT-CLASS-307-243	c 33	N74-22814 *	US-PATENT-CLASS-307-317	c 09	N72-22200 *
US-PATENT-CLASS-30-188	c 37	N84-28085 *	US-PATENT-CLASS-307-246	c 09	N71-27016 *	US-PATENT-CLASS-307-317	c 09	N72-22201 *
US-PATENT-CLASS-30-228	c 15	N70-42017 *	US-PATENT-CLASS-307-247	c 09	N71-29139 *	US-PATENT-CLASS-307-31	c 44	N87-21410 *
US-PATENT-CLASS-30-228	c 37	N84-28085 *	US-PATENT-CLASS-307-247	c 09	N72-22202 *	US-PATENT-CLASS-307-321	c 33	N75-19520 *
US-PATENT-CLASS-30-249	c 37	N84-28085 *	US-PATENT-CLASS-307-251	c 09	N71-33109 *	US-PATENT-CLASS-307-321	c 33	N75-25041 *
US-PATENT-CLASS-30-272R	c 37	N84-28085 *	US-PATENT-CLASS-307-251	c 08	N72-22162 *	US-PATENT-CLASS-307-322	c 10	N72-22236 *
US-PATENT-CLASS-30-90.6	c 37	N79-10419 *	US-PATENT-CLASS-307-252F	c 09	N72-17153 *	US-PATENT-CLASS-307-323	c 10	N72-22236 *
US-PATENT-CLASS-301-5P	c 37	N74-18125 *	US-PATENT-CLASS-307-252J	c 09	N72-17153 *	US-PATENT-CLASS-307-350	c 33	N78-18308 *
US-PATENT-CLASS-301-82	c 33	N79-10339 *	US-PATENT-CLASS-307-252J	c 09	N72-22201 *	US-PATENT-CLASS-307-352	c 33	N81-27396 *
US-PATENT-CLASS-302-66	c 25	N79-11152 *	US-PATENT-CLASS-307-252K	c 09	N72-22201 *	US-PATENT-CLASS-307-353	c 33	N81-27396 *
US-PATENT-CLASS-303-92	c 44	N79-14527 *	US-PATENT-CLASS-307-252L	c 33	N74-27682 *	US-PATENT-CLASS-307-354	c 33	N87-21235 *
US-PATENT-CLASS-305-35EB	c 11	N73-26238 *	US-PATENT-CLASS-307-252N	c 09	N72-23171 *	US-PATENT-CLASS-307-35	c 33	N74-34638 *
US-PATENT-CLASS-305-36	c 37	N87-17034 *	US-PATENT-CLASS-307-252Q	c 33	N74-27682 *	US-PATENT-CLASS-307-360	c 33	N78-18308 *
US-PATENT-CLASS-305-39	c 11	N73-26238 *	US-PATENT-CLASS-307-252R	c 09	N72-23171 *	US-PATENT-CLASS-307-38	c 03	N73-31988 *
US-PATENT-CLASS-305-51	c 37	N87-17034 *	US-PATENT-CLASS-307-252UA	c 33	N81-27395 *	US-PATENT-CLASS-307-415	c 33	N82-24418 *
US-PATENT-CLASS-305-58PC	c 37	N87-17034 *	US-PATENT-CLASS-307-252	c 10	N69-39888 *	US-PATENT-CLASS-307-425	c 36	N87-25567 *
US-PATENT-CLASS-305-58R	c 37	N87-17034 *	US-PATENT-CLASS-307-252	c 09	N71-12514 *	US-PATENT-CLASS-307-490	c 33	N87-22895 *
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US-PATENT-CLASS-307-104	c 09	N71-24892 *	US-PATENT-CLASS-307-254	c 10	N71-24799 *	US-PATENT-CLASS-307-521	c 33	N85-29145 *
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US-PATENT-CLASS-310-11	c 25	N69-21929 *	US-PATENT-CLASS-312-1	c 05	N71-23080 *	US-PATENT-CLASS-313-442	c 74	N78-18905 *
US-PATENT-CLASS-310-11	c 03	N69-39983 *	US-PATENT-CLASS-312-1	c 05	N70-20137 *	US-PATENT-CLASS-313-44	c 15	N69-24319 *
US-PATENT-CLASS-310-11	c 03	N70-36803 *	US-PATENT-CLASS-312-1	c 37	N74-20063 *	US-PATENT-CLASS-313-505	c 33	N87-28831 *
US-PATENT-CLASS-310-11	c 14	N72-22439 *	US-PATENT-CLASS-312-208	c 54	N88-24163 *	US-PATENT-CLASS-313-506	c 33	N87-28831 *
US-PATENT-CLASS-310-11	c 12	N72-25292 *	US-PATENT-CLASS-312-209	c 37	N74-18123 *	US-PATENT-CLASS-313-509	c 33	N87-28831 *
US-PATENT-CLASS-310-11	c 35	N74-21018 *	US-PATENT-CLASS-312-257	c 31	N72-22874 *	US-PATENT-CLASS-313-60	c 33	N77-22386 *
US-PATENT-CLASS-310-11	c 36	N75-32441 *	US-PATENT-CLASS-312-296	c 09	N71-18600 *	US-PATENT-CLASS-313-61S	c 73	N74-26767 *
US-PATENT-CLASS-310-11	c 44	N83-28573 *	US-PATENT-CLASS-312-300	c 54	N88-24163 *	US-PATENT-CLASS-313-61S	c 37	N78-13436 *
US-PATENT-CLASS-310-11	c 27	N91-14489 *	US-PATENT-CLASS-312-319	c 37	N79-33467 *	US-PATENT-CLASS-313-63	c 28	N70-41576 *
US-PATENT-CLASS-310-12	c 33	N82-24421 *	US-PATENT-CLASS-312-7.2	c 54	N88-24163 *	US-PATENT-CLASS-313-63	c 09	N71-10618 *
US-PATENT-CLASS-310-12	c 37	N83-32067 *	US-PATENT-CLASS-313-DIG.8	c 28	N73-24783 *	US-PATENT-CLASS-313-63	c 28	N71-26781 *
US-PATENT-CLASS-310-153	c 44	N78-24608 *	US-PATENT-CLASS-313-104	c 14	N73-32317 *	US-PATENT-CLASS-313-63	c 28	N73-24783 *
US-PATENT-CLASS-310-154	c 44	N78-24608 *	US-PATENT-CLASS-313-106	c 24	N83-10117 *	US-PATENT-CLASS-313-63	c 28	N73-27699 *
US-PATENT-CLASS-310-154	c 35	N84-28017 *	US-PATENT-CLASS-313-106	c 70	N84-28565 *	US-PATENT-CLASS-313-63	c 75	N75-13625 *
US-PATENT-CLASS-310-15	c 09	N72-25255 *	US-PATENT-CLASS-313-106	c 31	N86-32587 *	US-PATENT-CLASS-313-7	c 14	N71-18482 *
US-PATENT-CLASS-310-15	c 44	N83-28574 *	US-PATENT-CLASS-313-107	c 24	N83-10117 *	US-PATENT-CLASS-313-7	c 14	N73-32324 *
US-PATENT-CLASS-310-15	c 33	N87-23904 *	US-PATENT-CLASS-313-107	c 70	N84-28565 *	US-PATENT-CLASS-313-93	c 35	N74-26949 *
US-PATENT-CLASS-310-168	c 09	N71-25999 *	US-PATENT-CLASS-313-107	c 31	N86-32587 *	US-PATENT-CLASS-313-93	c 35	N82-24471 *
US-PATENT-CLASS-310-168	c 33	N77-26387 *	US-PATENT-CLASS-313-109.5	c 09	N71-33519 *	US-PATENT-CLASS-313-94	c 33	N76-31409 *
US-PATENT-CLASS-310-171	c 35	N84-28017 *	US-PATENT-CLASS-313-11.5	c 28	N70-39925 *	US-PATENT-CLASS-313-94	c 74	N78-18905 *
US-PATENT-CLASS-310-178	c 44	N78-24608 *	US-PATENT-CLASS-313-110	c 09	N71-12521 *	US-PATENT-CLASS-314-129	c 15	N69-24266 *
US-PATENT-CLASS-310-20	c 71	N79-20827 *	US-PATENT-CLASS-313-131A	c 33	N85-21491 *	US-PATENT-CLASS-315-DIG.2	c 16	N73-32391 *
US-PATENT-CLASS-310-22	c 31	N85-21404 *	US-PATENT-CLASS-313-146	c 33	N77-22386 *	US-PATENT-CLASS-315-101	c 16	N73-32391 *
US-PATENT-CLASS-310-231	c 33	N79-20314 *	US-PATENT-CLASS-313-153	c 33	N74-12913 *	US-PATENT-CLASS-315-108	c 09	N71-33519 *
US-PATENT-CLASS-310-254	c 09	N71-25999 *	US-PATENT-CLASS-313-155	c 25	N70-34661 *	US-PATENT-CLASS-315-108	c 33	N77-21316 *
US-PATENT-CLASS-310-269	c 44	N78-24608 *	US-PATENT-CLASS-313-156	c 72	N80-27163 *	US-PATENT-CLASS-315-108	c 36	N78-17366 *
US-PATENT-CLASS-310-26	c 71	N79-20827 *	US-PATENT-CLASS-313-161	c 25	N73-25760 *	US-PATENT-CLASS-315-10	c 33	N74-21850 *
US-PATENT-CLASS-310-2	c 03	N72-23048 *	US-PATENT-CLASS-313-161	c 09	N73-30181 *	US-PATENT-CLASS-315-10	c 33	N75-26244 *
US-PATENT-CLASS-310-300	c 71	N84-23233 *	US-PATENT-CLASS-313-161	c 33	N77-21315 *	US-PATENT-CLASS-315-110	c 33	N77-21316 *
US-PATENT-CLASS-310-306	c 33	N80-18287 *	US-PATENT-CLASS-313-175	c 33	N77-21316 *	US-PATENT-CLASS-315-111.2	c 75	N78-27913 *
US-PATENT-CLASS-310-306	c 44	N83-32175 *	US-PATENT-CLASS-313-175	c 31	N78-17238 *	US-PATENT-CLASS-315-111.31	c 33	N85-21491 *
US-PATENT-CLASS-310-306	c 34	N85-29179 *	US-PATENT-CLASS-313-176	c 31	N78-17238 *	US-PATENT-CLASS-315-111.3	c 20	N77-10148 *
US-PATENT-CLASS-310-306	c 37	N87-23970 *	US-PATENT-CLASS-313-180	c 33	N77-21316 *	US-PATENT-CLASS-315-111.3	c 20	N77-20162 *
US-PATENT-CLASS-310-30	c 44	N80-29834 *	US-PATENT-CLASS-313-180	c 31	N78-17238 *	US-PATENT-CLASS-315-111.41	c 72	N88-24253 *

US-PATENT-CLASS-315-111.6	c 75	N76-14931 *	US-PATENT-CLASS-315-39.3	c 33	N84-16452 *	US-PATENT-CLASS-317-261	c 33	N76-15373 *
US-PATENT-CLASS-315-111.6	c 20	N77-20162 *	US-PATENT-CLASS-315-39.3	c 33	N84-27974 *	US-PATENT-CLASS-317-31	c 09	N71-12526 *
US-PATENT-CLASS-315-111.71	c 72	N88-24253 *	US-PATENT-CLASS-315-39.3	c 33	N86-21742 *	US-PATENT-CLASS-317-31	c 10	N71-23543 *
US-PATENT-CLASS-315-111.81	c 33	N85-21491 *	US-PATENT-CLASS-315-3	c 33	N83-31952 *	US-PATENT-CLASS-317-31	c 33	N74-17929 *
US-PATENT-CLASS-315-111.81	c 33	N87-21234 *	US-PATENT-CLASS-315-3	c 33	N90-22724 *	US-PATENT-CLASS-317-31	c 33	N77-14333 *
US-PATENT-CLASS-315-111.81	c 72	N88-24253 *	US-PATENT-CLASS-315-4	c 33	N83-31952 *	US-PATENT-CLASS-317-33SC	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N70-33267 *	US-PATENT-CLASS-315-5.35	c 33	N74-10195 *	US-PATENT-CLASS-317-33	c 10	N71-26531 *
US-PATENT-CLASS-315-111	c 25	N70-41628 *	US-PATENT-CLASS-315-5.35	c 33	N83-31952 *	US-PATENT-CLASS-317-33	c 09	N71-27001 *
US-PATENT-CLASS-315-111	c 25	N71-15562 *	US-PATENT-CLASS-315-5.38	c 09	N73-13208 *	US-PATENT-CLASS-317-33	c 10	N71-27366 *
US-PATENT-CLASS-315-111	c 24	N71-16213 *	US-PATENT-CLASS-315-5.38	c 33	N74-10195 *	US-PATENT-CLASS-317-33	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 25	N71-21693 *	US-PATENT-CLASS-315-5.38	c 33	N82-24415 *	US-PATENT-CLASS-317-43	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 28	N71-26781 *	US-PATENT-CLASS-315-5.38	c 24	N83-10117 *	US-PATENT-CLASS-317-46	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N71-29184 *	US-PATENT-CLASS-315-5.38	c 33	N83-31952 *	US-PATENT-CLASS-317-47	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 09	N71-33519 *	US-PATENT-CLASS-315-5.38	c 70	N84-28565 *	US-PATENT-CLASS-317-48	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N72-24753 *	US-PATENT-CLASS-315-5.38	c 37	N85-33489 *	US-PATENT-CLASS-317-54	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 25	N72-32688 *	US-PATENT-CLASS-315-5.38	c 31	N86-32587 *	US-PATENT-CLASS-317-60	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 14	N73-30391 *	US-PATENT-CLASS-315-5	c 33	N83-31952 *	US-PATENT-CLASS-317-9	c 09	N71-22796 *
US-PATENT-CLASS-315-111	c 75	N75-13625 *	US-PATENT-CLASS-317-DIG.3	c 10	N71-26334 *	US-PATENT-CLASS-317-9	c 09	N71-27001 *
US-PATENT-CLASS-315-111	c 33	N75-29318 *	US-PATENT-CLASS-317-DIG.6	c 10	N73-26228 *	US-PATENT-CLASS-318-107	c 44	N87-21410 *
US-PATENT-CLASS-315-111	c 37	N75-29426 *	US-PATENT-CLASS-317-100	c 10	N71-28783 *	US-PATENT-CLASS-318-116	c 71	N79-20827 *
US-PATENT-CLASS-315-111	c 33	N74-21850 *	US-PATENT-CLASS-317-100	c 10	N73-25243 *	US-PATENT-CLASS-318-116	c 71	N84-23233 *
US-PATENT-CLASS-315-12	c 33	N74-21850 *	US-PATENT-CLASS-317-101A	c 09	N72-33205 *	US-PATENT-CLASS-318-116	c 33	N87-28833 *
US-PATENT-CLASS-315-135	c 09	N72-25250 *	US-PATENT-CLASS-317-101A	c 23	N73-13660 *	US-PATENT-CLASS-318-135	c 33	N82-24421 *
US-PATENT-CLASS-315-145	c 33	N80-14330 *	US-PATENT-CLASS-317-101DH	c 15	N72-22486 *	US-PATENT-CLASS-318-137	c 33	N75-19524 *
US-PATENT-CLASS-315-151	c 14	N72-27411 *	US-PATENT-CLASS-317-101DH	c 10	N73-25243 *	US-PATENT-CLASS-318-138	c 09	N71-10677 *
US-PATENT-CLASS-315-153	c 14	N73-16483 *	US-PATENT-CLASS-317-101	c 09	N71-26133 *	US-PATENT-CLASS-318-138	c 14	N71-17585 *
US-PATENT-CLASS-315-153	c 74	N79-12890 *	US-PATENT-CLASS-317-117	c 15	N72-22486 *	US-PATENT-CLASS-318-138	c 10	N71-18772 *
US-PATENT-CLASS-315-156	c 14	N72-27411 *	US-PATENT-CLASS-317-120	c 15	N72-22486 *	US-PATENT-CLASS-318-138	c 09	N71-25999 *
US-PATENT-CLASS-315-158	c 14	N72-27411 *	US-PATENT-CLASS-317-122	c 15	N71-18701 *	US-PATENT-CLASS-318-138	c 33	N77-26386 *
US-PATENT-CLASS-315-160	c 09	N71-12540 *	US-PATENT-CLASS-317-123	c 09	N71-24892 *	US-PATENT-CLASS-318-138	c 33	N81-20352 *
US-PATENT-CLASS-315-169R	c 23	N73-13660 *	US-PATENT-CLASS-317-140	c 09	N70-34502 *	US-PATENT-CLASS-318-138	c 33	N87-21233 *
US-PATENT-CLASS-315-169R	c 36	N75-19652 *	US-PATENT-CLASS-317-148.5	c 10	N71-23271 *	US-PATENT-CLASS-318-15	c 37	N80-32716 *
US-PATENT-CLASS-315-169TV	c 23	N73-13660 *	US-PATENT-CLASS-317-148.5	c 09	N71-24892 *	US-PATENT-CLASS-318-161	c 44	N87-21410 *
US-PATENT-CLASS-315-172	c 33	N88-24862 *	US-PATENT-CLASS-317-153	c 10	N71-26334 *	US-PATENT-CLASS-318-167	c 33	N75-19524 *
US-PATENT-CLASS-315-173	c 33	N88-24862 *	US-PATENT-CLASS-317-155.5	c 09	N71-29008 *	US-PATENT-CLASS-318-176	c 33	N75-19524 *
US-PATENT-CLASS-315-176	c 33	N77-28385 *	US-PATENT-CLASS-317-157.5	c 15	N69-21472 *	US-PATENT-CLASS-318-183	c 33	N75-19524 *
US-PATENT-CLASS-315-18	c 32	N74-20813 *	US-PATENT-CLASS-317-158	c 15	N73-28516 *	US-PATENT-CLASS-318-200.105	c 08	N71-27057 *
US-PATENT-CLASS-315-18	c 33	N75-19517 *	US-PATENT-CLASS-317-158	c 26	N73-28710 *	US-PATENT-CLASS-318-200	c 33	N78-10376 *
US-PATENT-CLASS-315-200-R	c 33	N88-23942 *	US-PATENT-CLASS-317-158	c 15	N73-32361 *	US-PATENT-CLASS-318-227	c 07	N71-33613 *
US-PATENT-CLASS-315-208	c 33	N83-34189 *	US-PATENT-CLASS-317-16	c 09	N69-39897 *	US-PATENT-CLASS-318-227	c 33	N75-15874 *
US-PATENT-CLASS-315-209CD	c 37	N79-11405 *	US-PATENT-CLASS-317-16	c 33	N74-17929 *	US-PATENT-CLASS-318-227	c 33	N77-26386 *
US-PATENT-CLASS-315-209SC	c 37	N79-11405 *	US-PATENT-CLASS-317-2D	c 33	N77-10429 *	US-PATENT-CLASS-318-227	c 33	N78-10376 *
US-PATENT-CLASS-315-211	c 33	N74-20859 *	US-PATENT-CLASS-317-20	c 10	N71-26531 *	US-PATENT-CLASS-318-22	c 15	N71-17694 *
US-PATENT-CLASS-315-22R	c 10	N72-31273 *	US-PATENT-CLASS-317-230	c 09	N71-27232 *	US-PATENT-CLASS-318-230	c 07	N71-33613 *
US-PATENT-CLASS-315-224	c 33	N83-34189 *	US-PATENT-CLASS-317-230	c 26	N72-28761 *	US-PATENT-CLASS-318-230	c 10	N73-32145 *
US-PATENT-CLASS-315-225	c 33	N83-34189 *	US-PATENT-CLASS-317-231	c 09	N71-27232 *	US-PATENT-CLASS-318-230	c 33	N75-15874 *
US-PATENT-CLASS-315-227-R	c 33	N88-23942 *	US-PATENT-CLASS-317-234A	c 15	N73-14469 *	US-PATENT-CLASS-318-230	c 33	N78-10376 *
US-PATENT-CLASS-315-228	c 33	N74-20859 *	US-PATENT-CLASS-317-234D	c 14	N72-31446 *	US-PATENT-CLASS-318-231	c 10	N73-32145 *
US-PATENT-CLASS-315-22	c 10	N72-20225 *	US-PATENT-CLASS-317-234E	c 33	N74-12951 *	US-PATENT-CLASS-318-231	c 33	N75-15874 *
US-PATENT-CLASS-315-22	c 32	N74-20813 *	US-PATENT-CLASS-317-234F	c 33	N74-12951 *	US-PATENT-CLASS-318-254	c 09	N71-25999 *
US-PATENT-CLASS-315-22	c 33	N78-17293 *	US-PATENT-CLASS-317-234G	c 14	N72-31446 *	US-PATENT-CLASS-318-254	c 09	N73-32107 *
US-PATENT-CLASS-315-237	c 33	N83-34189 *	US-PATENT-CLASS-317-234G	c 15	N73-14469 *	US-PATENT-CLASS-318-254	c 33	N77-26386 *
US-PATENT-CLASS-315-241-R	c 33	N88-23942 *	US-PATENT-CLASS-317-234G	c 09	N73-27150 *	US-PATENT-CLASS-318-254	c 33	N81-20352 *
US-PATENT-CLASS-315-241R	c 37	N79-11405 *	US-PATENT-CLASS-317-234J	c 26	N72-25679 *	US-PATENT-CLASS-318-254	c 33	N82-26569 *
US-PATENT-CLASS-315-241R	c 33	N83-34189 *	US-PATENT-CLASS-317-234L	c 09	N73-27150 *	US-PATENT-CLASS-318-254	c 33	N87-21233 *
US-PATENT-CLASS-315-241	c 09	N71-13518 *	US-PATENT-CLASS-317-234M	c 09	N73-27150 *	US-PATENT-CLASS-318-257	c 10	N71-18724 *
US-PATENT-CLASS-315-248	c 09	N73-30181 *	US-PATENT-CLASS-317-234M	c 33	N74-12951 *	US-PATENT-CLASS-318-258	c 09	N71-26092 *
US-PATENT-CLASS-315-24	c 08	N71-20571 *	US-PATENT-CLASS-317-234N	c 09	N73-27150 *	US-PATENT-CLASS-318-260	c 09	N70-38712 *
US-PATENT-CLASS-315-254	c 33	N88-23942 *	US-PATENT-CLASS-317-234N	c 33	N74-12951 *	US-PATENT-CLASS-318-265	c 15	N71-24895 *
US-PATENT-CLASS-315-255	c 33	N88-23942 *	US-PATENT-CLASS-317-234R	c 09	N73-27150 *	US-PATENT-CLASS-318-267	c 37	N77-27400 *
US-PATENT-CLASS-315-258	c 16	N73-32391 *	US-PATENT-CLASS-317-234R	c 33	N74-12951 *	US-PATENT-CLASS-318-308	c 11	N72-20244 *
US-PATENT-CLASS-315-25	c 10	N72-20225 *	US-PATENT-CLASS-317-234V	c 26	N72-21701 *	US-PATENT-CLASS-318-314	c 10	N71-20448 *
US-PATENT-CLASS-315-260	c 33	N80-14330 *	US-PATENT-CLASS-317-234V	c 09	N73-15235 *	US-PATENT-CLASS-318-314	c 09	N75-24758 *
US-PATENT-CLASS-315-26	c 09	N71-23189 *	US-PATENT-CLASS-317-234	c 14	N69-23191 *	US-PATENT-CLASS-318-317	c 09	N71-28886 *
US-PATENT-CLASS-315-276	c 33	N88-23942 *	US-PATENT-CLASS-317-234	c 09	N69-27422 *	US-PATENT-CLASS-318-318	c 09	N71-24805 *
US-PATENT-CLASS-315-277	c 33	N88-23942 *	US-PATENT-CLASS-317-234	c 26	N71-18064 *	US-PATENT-CLASS-318-318	c 09	N75-24758 *
US-PATENT-CLASS-315-297	c 14	N72-27411 *	US-PATENT-CLASS-317-235AG	c 09	N73-15235 *	US-PATENT-CLASS-318-31	c 15	N71-28952 *
US-PATENT-CLASS-315-3.5	c 09	N73-13208 *	US-PATENT-CLASS-317-235AJ	c 26	N72-25679 *	US-PATENT-CLASS-318-327	c 11	N72-20244 *
US-PATENT-CLASS-315-3.5	c 33	N79-10339 *	US-PATENT-CLASS-317-235AJ	c 09	N72-33205 *	US-PATENT-CLASS-318-328	c 09	N73-32107 *
US-PATENT-CLASS-315-3.5	c 33	N82-26568 *	US-PATENT-CLASS-317-235AM	c 09	N73-19235 *	US-PATENT-CLASS-318-331	c 09	N71-28886 *
US-PATENT-CLASS-315-3.5	c 33	N84-16452 *	US-PATENT-CLASS-317-235A	c 26	N72-25679 *	US-PATENT-CLASS-318-341	c 10	N73-32145 *
US-PATENT-CLASS-315-3.5	c 37	N85-33489 *	US-PATENT-CLASS-317-235A	c 09	N72-33205 *	US-PATENT-CLASS-318-341	c 09	N75-24758 *
US-PATENT-CLASS-315-3.5	c 33	N86-21742 *	US-PATENT-CLASS-317-235H	c 35	N75-13213 *	US-PATENT-CLASS-318-345	c 09	N71-28886 *
US-PATENT-CLASS-315-3.5	c 33	N90-22724 *	US-PATENT-CLASS-317-235K	c 09	N73-15235 *	US-PATENT-CLASS-318-376	c 10	N71-16030 *
US-PATENT-CLASS-315-3.6	c 33	N79-10339 *	US-PATENT-CLASS-317-235M	c 14	N72-31446 *	US-PATENT-CLASS-318-376	c 11	N72-20244 *
US-PATENT-CLASS-315-3.6	c 33	N82-24415 *	US-PATENT-CLASS-317-235N	c 09	N73-19235 *	US-PATENT-CLASS-318-382	c 15	N71-24695 *
US-PATENT-CLASS-315-3.6	c 33	N82-26568 *	US-PATENT-CLASS-317-235N	c 35	N74-15090 *	US-PATENT-CLASS-318-434	c 33	N90-21951 *
US-PATENT-CLASS-315-3.6	c 33	N84-16452 *	US-PATENT-CLASS-317-235R	c 26	N72-21701 *	US-PATENT-CLASS-318-438	c 33	N84-22885 *
US-PATENT-CLASS-315-3.6	c 33	N84-27974 *	US-PATENT-CLASS-317-235R	c 26	N72-25679 *	US-PATENT-CLASS-318-439	c 33	N81-20352 *
US-PATENT-CLASS-315-3.6	c 33	N86-21742 *	US-PATENT-CLASS-317-235R	c 14	N72-31446 *	US-PATENT-CLASS-318-439	c 33	N87-21233 *
US-PATENT-CLASS-315-30R	c 10	N72-31273 *	US-PATENT-CLASS-317-235R	c 09	N73-19235 *	US-PATENT-CLASS-318-468	c 37	N77-27400 *
US-PATENT-CLASS-315-307	c 14	N72-27411 *	US-PATENT-CLASS-317-235R	c 09	N73-32112 *	US-PATENT-CLASS-318-46	c 44	N85-21769 *
US-PATENT-CLASS-315-30	c 33	N75-27250 *	US-PATENT-CLASS-317-235T	c 09	N73-19235 *	US-PATENT-CLASS-318-470	c 37	N77-27400 *
US-PATENT-CLASS-315-310	c 14	N72-27411 *	US-PATENT-CLASS-317-235UA	c 09	N73-19235 *	US-PATENT-CLASS-318-489	c 02	N73-19004 *
US-PATENT-CLASS-315-311	c 14	N72-27411 *	US-PATENT-CLASS-317-235VW	c 09	N73-32112 *	US-PATENT-CLASS-318-48	c 37	N86-27629 *
US-PATENT-CLASS-315-324	c 09	N73-30181 *	US-PATENT-CLASS-317-235	c 09	N69-24318 *	US-PATENT-CLASS-318-504	c 09	N71-28886 *
US-PATENT-CLASS-315-326	c 25	N72-24753 *	US-PATENT-CLASS-317-235	c 09	N72-33205 *	US-PATENT-CLASS-318-561	c 33	N82-18493 *
US-PATENT-CLASS-315-334	c 33	N80-14330 *	US-PATENT-CLASS-317-238	c 09	N71-27232 *	US-PATENT-CLASS-318-561	c 33	N90-21951 *
US-PATENT-CLASS-315-344	c 33	N77-21315 *	US-PATENT-CLASS-317-245	c 33	N79-21265 *	US-PATENT-CLASS-318-564	c 60	N82-29013 *
US-PATENT-CLASS-315-349	c 09	N72-25250 *	US-PATENT-CLASS-317-246	c 14	N69-21541 *	US-PATENT-CLASS-318-571	c 10	N71-27136 *
US-PATENT-CLASS-315-356	c 16	N73-32391 *	US-PATENT-CLASS-317-246	c 33	N76-21390 *	US-PATENT-CLASS-318-573	c 35	N79-14348 *
US-PATENT-CLASS-315-358	c 25	N72-24753 *	US-PATENT-CLASS-317-246	c 35	N76-22509 *	US-PATENT-CLASS-318-576	c 09	N72-21246 *
US-PATENT-CLASS-315-367	c 33	N75-26244 *	US-PATENT-CLASS-317-247	c 14	N72-24477 *	US-PATENT-CLASS-318-577	c 37	N86-21850 *
US-PATENT-CLASS-315-369	c 33	N75-26244 *	US-PATENT-CLASS-317-258	c 09	N71-13522 *	US-PATENT-CLASS-318-580	c 08	N74-10942 *
US-PATENT-CLASS-315-38	c 10	N72-27246 *	US-PATENT-CLASS-317-258	c 33	N76-15373 *	US-PATENT-CLASS-318-580	c 04	N82-23231 *
US-PATENT-CLASS-315-387	c 33	N75-26244 *	US-PATENT-CLASS-317-261	c 26	N72-28761 *	US-PATENT-CLASS-318-584	c 08	N81-24106 *

US-PATENT-CLASS-318-584	c 08	N86-27288 *	US-PATENT-CLASS-321-18	c 09	N72-22203 *	US-PATENT-CLASS-323-8	c 10	N71-10578 *
US-PATENT-CLASS-318-585	c 08	N79-23097 *	US-PATENT-CLASS-321-18	c 09	N72-25251 *	US-PATENT-CLASS-323-901	c 33	N84-33663 *
US-PATENT-CLASS-318-587	c 35	N84-33769 *	US-PATENT-CLASS-321-18	c 09	N72-25252 *	US-PATENT-CLASS-323-903	c 33	N90-20320 *
US-PATENT-CLASS-318-594	c 35	N79-14348 *	US-PATENT-CLASS-321-18	c 33	N74-11049 *	US-PATENT-CLASS-323-93	c 33	N77-31404 *
US-PATENT-CLASS-318-599	c 10	N71-24861 *	US-PATENT-CLASS-321-19	c 09	N72-22196 *	US-PATENT-CLASS-324-5R	c 16	N73-13489 *
US-PATENT-CLASS-318-602	c 33	N74-29556 *	US-PATENT-CLASS-321-19	c 09	N72-25252 *	US-PATENT-CLASS-324-5	c 14	N71-20428 *
US-PATENT-CLASS-318-603	c 33	N74-29556 *	US-PATENT-CLASS-321-19	c 33	N77-10428 *	US-PATENT-CLASS-324-DIG.1	c 33	N75-19520 *
US-PATENT-CLASS-318-605	c 31	N86-29055 *	US-PATENT-CLASS-321-25	c 09	N72-22196 *	US-PATENT-CLASS-324-DIG.1	c 33	N75-25041 *
US-PATENT-CLASS-318-608	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 03	N69-21330 *	US-PATENT-CLASS-324-0.5	c 14	N71-26137 *
US-PATENT-CLASS-318-611	c 37	N85-30333 *	US-PATENT-CLASS-321-2	c 03	N69-25146 *	US-PATENT-CLASS-324-0.5	c 14	N71-26266 *
US-PATENT-CLASS-318-615	c 33	N90-21951 *	US-PATENT-CLASS-321-2	c 03	N71-12255 *	US-PATENT-CLASS-324-0.5	c 36	N79-14362 *
US-PATENT-CLASS-318-616	c 08	N79-23097 *	US-PATENT-CLASS-321-2	c 09	N71-23188 *	US-PATENT-CLASS-324-102	c 09	N72-11225 *
US-PATENT-CLASS-318-618	c 33	N90-21951 *	US-PATENT-CLASS-321-2	c 03	N71-23239 *	US-PATENT-CLASS-324-102	c 33	N74-17930 *
US-PATENT-CLASS-318-620	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 10	N71-26085 *	US-PATENT-CLASS-324-102	c 33	N75-19521 *
US-PATENT-CLASS-318-621	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 09	N72-22196 *	US-PATENT-CLASS-324-102	c 33	N79-11315 *
US-PATENT-CLASS-318-622	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 09	N72-22203 *	US-PATENT-CLASS-324-102	c 33	N79-14305 *
US-PATENT-CLASS-318-628	c 08	N74-10942 *	US-PATENT-CLASS-321-2	c 03	N72-23048 *	US-PATENT-CLASS-324-103	c 10	N71-27338 *
US-PATENT-CLASS-318-632	c 37	N86-27629 *	US-PATENT-CLASS-321-2	c 09	N72-25249 *	US-PATENT-CLASS-324-106	c 14	N70-38602 *
US-PATENT-CLASS-318-636	c 31	N86-29055 *	US-PATENT-CLASS-321-2	c 09	N72-25251 *	US-PATENT-CLASS-324-106	c 08	N71-29138 *
US-PATENT-CLASS-318-640	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 09	N72-25252 *	US-PATENT-CLASS-324-107	c 10	N71-27338 *
US-PATENT-CLASS-318-640	c 54	N75-27758 *	US-PATENT-CLASS-321-2	c 09	N72-25253 *	US-PATENT-CLASS-324-112	c 33	N79-14305 *
US-PATENT-CLASS-318-640	c 35	N79-14348 *	US-PATENT-CLASS-321-2	c 09	N72-25254 *	US-PATENT-CLASS-324-113	c 09	N70-41655 *
US-PATENT-CLASS-318-640	c 37	N81-27519 *	US-PATENT-CLASS-321-2	c 33	N74-11049 *	US-PATENT-CLASS-324-113	c 33	N75-19521 *
US-PATENT-CLASS-318-640	c 08	N86-27288 *	US-PATENT-CLASS-321-2	c 33	N77-10428 *	US-PATENT-CLASS-324-113	c 33	N79-11315 *
US-PATENT-CLASS-318-649	c 33	N75-13139 *	US-PATENT-CLASS-321-45C	c 10	N73-26228 *	US-PATENT-CLASS-324-113	c 33	N79-14305 *
US-PATENT-CLASS-318-653	c 10	N71-27136 *	US-PATENT-CLASS-321-45ER	c 09	N72-25252 *	US-PATENT-CLASS-324-115	c 14	N71-26244 *
US-PATENT-CLASS-318-661	c 31	N86-29055 *	US-PATENT-CLASS-321-45R	c 09	N72-25252 *	US-PATENT-CLASS-324-115	c 10	N72-20222 *
US-PATENT-CLASS-318-663	c 37	N81-33483 *	US-PATENT-CLASS-321-45R	c 09	N72-25254 *	US-PATENT-CLASS-324-115	c 17	N91-14371 *
US-PATENT-CLASS-318-663	c 37	N86-27629 *	US-PATENT-CLASS-321-45R	c 33	N74-22864 *	US-PATENT-CLASS-324-117	c 14	N71-23037 *
US-PATENT-CLASS-318-664	c 33	N74-29556 *	US-PATENT-CLASS-321-45R	c 33	N74-11049 *	US-PATENT-CLASS-324-117	c 33	N89-29681 *
US-PATENT-CLASS-318-675	c 33	N75-13139 *	US-PATENT-CLASS-321-45	c 09	N71-24800 *	US-PATENT-CLASS-324-118	c 33	N74-17930 *
US-PATENT-CLASS-318-675	c 37	N77-27400 *	US-PATENT-CLASS-321-45	c 09	N72-22203 *	US-PATENT-CLASS-324-119	c 09	N72-11225 *
US-PATENT-CLASS-318-685	c 33	N83-35227 *	US-PATENT-CLASS-321-47	c 09	N71-33109 *	US-PATENT-CLASS-324-120	c 14	N71-19431 *
US-PATENT-CLASS-318-729	c 33	N83-34190 *	US-PATENT-CLASS-321-47	c 09	N72-25253 *	US-PATENT-CLASS-324-120	c 09	N71-23021 *
US-PATENT-CLASS-318-729	c 33	N84-14424 *	US-PATENT-CLASS-321-48	c 12	N71-20896 *	US-PATENT-CLASS-324-123C	c 33	N79-22373 *
US-PATENT-CLASS-318-729	c 33	N84-22885 *	US-PATENT-CLASS-321-5	c 08	N71-18752 *	US-PATENT-CLASS-324-123R	c 09	N72-11225 *
US-PATENT-CLASS-318-729	c 33	N84-22886 *	US-PATENT-CLASS-321-60	c 14	N71-23174 *	US-PATENT-CLASS-324-127	c 33	N79-18193 *
US-PATENT-CLASS-318-729	c 33	N84-27975 *	US-PATENT-CLASS-321-61	c 09	N71-27364 *	US-PATENT-CLASS-324-127	c 33	N89-29681 *
US-PATENT-CLASS-318-729	c 33	N84-33661 *	US-PATENT-CLASS-321-64	c 09	N71-27364 *	US-PATENT-CLASS-324-130	c 35	N78-28411 *
US-PATENT-CLASS-318-729	c 44	N85-21769 *	US-PATENT-CLASS-321-69	c 10	N71-26414 *	US-PATENT-CLASS-324-132	c 09	N71-13530 *
US-PATENT-CLASS-318-729	c 33	N85-22877 *	US-PATENT-CLASS-321-6R	c 35	N74-18090 *	US-PATENT-CLASS-324-132	c 10	N72-20222 *
US-PATENT-CLASS-318-798	c 33	N83-34190 *	US-PATENT-CLASS-321-9	c 10	N71-25139 *	US-PATENT-CLASS-324-133	c 10	N71-27338 *
US-PATENT-CLASS-318-798	c 33	N83-35227 *	US-PATENT-CLASS-322-2R	c 07	N83-20944 *	US-PATENT-CLASS-324-133	c 33	N79-10337 *
US-PATENT-CLASS-318-798	c 33	N84-14424 *	US-PATENT-CLASS-322-25	c 33	N84-33660 *	US-PATENT-CLASS-324-133	c 33	N79-11315 *
US-PATENT-CLASS-318-798	c 33	N84-22885 *	US-PATENT-CLASS-322-29	c 33	N83-28319 *	US-PATENT-CLASS-324-133	c 33	N79-14305 *
US-PATENT-CLASS-318-799	c 33	N81-27395 *	US-PATENT-CLASS-322-29	c 33	N84-33660 *	US-PATENT-CLASS-324-133	c 33	N79-18193 *
US-PATENT-CLASS-318-799	c 33	N84-16455 *	US-PATENT-CLASS-322-2	c 03	N72-23048 *	US-PATENT-CLASS-324-158-D	c 33	N87-22894 *
US-PATENT-CLASS-318-800	c 33	N83-31953 *	US-PATENT-CLASS-322-32	c 09	N71-27364 *	US-PATENT-CLASS-324-158-R	c 33	N87-22894 *
US-PATENT-CLASS-318-802	c 33	N84-33661 *	US-PATENT-CLASS-322-35	c 33	N83-28319 *	US-PATENT-CLASS-324-158D	c 15	N72-25457 *
US-PATENT-CLASS-318-803	c 33	N83-10345 *	US-PATENT-CLASS-322-47	c 33	N83-28319 *	US-PATENT-CLASS-324-158D	c 76	N76-20994 *
US-PATENT-CLASS-318-803	c 33	N83-31953 *	US-PATENT-CLASS-322-47	c 33	N84-33660 *	US-PATENT-CLASS-324-158D	c 44	N80-18551 *
US-PATENT-CLASS-318-805	c 33	N84-22885 *	US-PATENT-CLASS-322-95	c 33	N83-28319 *	US-PATENT-CLASS-324-158D	c 76	N84-35112 *
US-PATENT-CLASS-318-806	c 33	N82-26569 *	US-PATENT-CLASS-322-95	c 33	N84-33660 *	US-PATENT-CLASS-324-158D	c 76	N85-30923 *
US-PATENT-CLASS-318-806	c 33	N83-34190 *	US-PATENT-CLASS-322-96	c 33	N77-26387 *	US-PATENT-CLASS-324-158F	c 33	N91-14552 *
US-PATENT-CLASS-318-806	c 33	N83-35227 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-21243 *	US-PATENT-CLASS-324-158P	c 33	N91-14552 *
US-PATENT-CLASS-318-806	c 33	N84-14424 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-25249 *	US-PATENT-CLASS-324-158R	c 76	N76-20994 *
US-PATENT-CLASS-318-809	c 33	N83-31953 *	US-PATENT-CLASS-323-DIG.1	c 33	N74-11049 *	US-PATENT-CLASS-324-158R	c 33	N85-30187 *
US-PATENT-CLASS-318-809	c 33	N84-27975 *	US-PATENT-CLASS-323-DIG.1	c 33	N77-10428 *	US-PATENT-CLASS-324-158T	c 15	N72-25457 *
US-PATENT-CLASS-318-810	c 33	N81-27395 *	US-PATENT-CLASS-323-106	c 33	N74-22885 *	US-PATENT-CLASS-324-158T	c 35	N75-12270 *
US-PATENT-CLASS-318-810	c 33	N84-22885 *	US-PATENT-CLASS-323-122	c 33	N74-22885 *	US-PATENT-CLASS-324-158T	c 76	N76-20994 *
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US-PATENT-CLASS-318-812	c 33	N84-22886 *	US-PATENT-CLASS-323-15	c 20	N79-20179 *	US-PATENT-CLASS-324-158T	c 76	N84-35112 *
US-PATENT-CLASS-318-812	c 33	N85-22877 *	US-PATENT-CLASS-323-15	c 44	N80-14472 *	US-PATENT-CLASS-324-158	c 09	N69-21926 *
US-PATENT-CLASS-318-830	c 33	N82-26569 *	US-PATENT-CLASS-323-17	c 09	N72-25249 *	US-PATENT-CLASS-324-163	c 35	N77-30436 *
US-PATENT-CLASS-318-8	c 37	N86-27629 *	US-PATENT-CLASS-323-17	c 33	N77-10428 *	US-PATENT-CLASS-324-165	c 35	N77-30436 *
US-PATENT-CLASS-32-28	c 05	N73-27062 *	US-PATENT-CLASS-323-18	c 33	N78-12995 *	US-PATENT-CLASS-324-173	c 35	N78-32396 *
US-PATENT-CLASS-32-58	c 05	N73-27062 *	US-PATENT-CLASS-323-19	c 08	N72-31226 *	US-PATENT-CLASS-324-174	c 35	N77-30436 *
US-PATENT-CLASS-320-13	c 03	N71-29129 *	US-PATENT-CLASS-323-19	c 33	N78-12996 *	US-PATENT-CLASS-324-181	c 09	N71-24717 *
US-PATENT-CLASS-320-13	c 44	N78-25531 *	US-PATENT-CLASS-323-19	c 44	N80-14472 *	US-PATENT-CLASS-324-186	c 09	N72-25257 *
US-PATENT-CLASS-320-15	c 44	N78-14625 *	US-PATENT-CLASS-323-20	c 14	N71-27407 *	US-PATENT-CLASS-324-186	c 52	N74-12778 *
US-PATENT-CLASS-320-15	c 44	N78-25531 *	US-PATENT-CLASS-323-20	c 20	N79-20179 *	US-PATENT-CLASS-324-20R	c 09	N72-21772 *
US-PATENT-CLASS-320-17	c 03	N71-24605 *	US-PATENT-CLASS-323-22T	c 09	N72-21243 *	US-PATENT-CLASS-324-20R	c 44	N79-12541 *
US-PATENT-CLASS-320-18	c 44	N78-14625 *	US-PATENT-CLASS-323-22T	c 09	N72-25249 *	US-PATENT-CLASS-324-20R	c 35	N78-32396 *
US-PATENT-CLASS-320-21	c 44	N76-18643 *	US-PATENT-CLASS-323-22T	c 33	N77-10428 *	US-PATENT-CLASS-324-209	c 26	N90-21170 *
US-PATENT-CLASS-320-22	c 44	N76-18643 *	US-PATENT-CLASS-323-22T	c 33	N79-23345 *	US-PATENT-CLASS-324-226	c 35	N86-32698 *
US-PATENT-CLASS-320-23	c 03	N71-19438 *	US-PATENT-CLASS-323-22	c 09	N71-21449 *	US-PATENT-CLASS-324-226	c 26	N90-21170 *
US-PATENT-CLASS-320-2	c 44	N77-14581 *	US-PATENT-CLASS-323-22	c 09	N71-23316 *	US-PATENT-CLASS-324-227	c 26	N90-21170 *
US-PATENT-CLASS-320-32	c 44	N78-25531 *	US-PATENT-CLASS-323-23	c 33	N77-10428 *	US-PATENT-CLASS-324-22	c 44	N79-12541 *
US-PATENT-CLASS-320-39	c 03	N71-24719 *	US-PATENT-CLASS-323-243	c 33	N84-16455 *	US-PATENT-CLASS-324-234	c 27	N90-23544 *
US-PATENT-CLASS-320-39	c 44	N78-25531 *	US-PATENT-CLASS-323-246	c 33	N84-16455 *	US-PATENT-CLASS-324-235	c 26	N90-21170 *
US-PATENT-CLASS-320-40	c 44	N78-14625 *	US-PATENT-CLASS-323-269	c 33	N83-27126 *	US-PATENT-CLASS-324-236	c 27	N90-23544 *
US-PATENT-CLASS-320-48	c 03	N72-25020 *	US-PATENT-CLASS-323-300	c 33	N84-27975 *	US-PATENT-CLASS-324-238	c 35	N86-32698 *
US-PATENT-CLASS-320-51	c 33	N91-14537 *	US-PATENT-CLASS-323-303	c 33	N83-27126 *	US-PATENT-CLASS-324-239	c 26	N90-21170 *
US-PATENT-CLASS-320-53	c 33	N78-12796 *	US-PATENT-CLASS-323-350	c 33	N83-27126 *	US-PATENT-CLASS-324-240	c 35	N86-32698 *
US-PATENT-CLASS-320-6	c 44	N78-14625 *	US-PATENT-CLASS-323-354	c 33	N90-19492 *	US-PATENT-CLASS-324-249	c 35	N78-32397 *
US-PATENT-CLASS-320-9	c 44	N78-25531 *	US-PATENT-CLASS-323-38	c 09	N72-21243 *	US-PATENT-CLASS-324-250	c 35	N84-12444 *
US-PATENT-CLASS-321-1.5	c 09	N73-32109 *	US-PATENT-CLASS-323-44F	c 33	N79-17133 *	US-PATENT-CLASS-324-262	c 35	N84-22928 *
US-PATENT-CLASS-321-10	c 09	N72-17154 *	US-PATENT-CLASS-323-48	c 09	N71-27053 *	US-PATENT-CLASS-324-262	c 35	N86-32698 *
US-PATENT-CLASS-321-11	c 09	N69-39984 *	US-PATENT-CLASS-323-48	c 09	N72-25262 *	US-PATENT-CLASS-324-29.5	c 03	N72-25020 *
US-PATENT-CLASS-321-11	c 09	N72-25252 *	US-PATENT-CLASS-323-4	c 33	N78-17294 *	US-PATENT-CLASS-324-29.5	c 14	N73-30388 *
US-PATENT-CLASS-321-11	c 10	N73-26228 *	US-PATENT-CLASS-323-56	c 10	N71-22961 *	US-PATENT-CLASS-324-29.5	c 44	N74-27519 *
US-PATENT-CLASS-321-12	c 10	N71-27366 *	US-PATENT-CLASS-323-56	c 09	N71-24893 *	US-PATENT-CLASS-324-30B	c 33	N76-19339 *
US-PATENT-CLASS-321-13	c 33	N77-14333 *	US-PATENT-CLASS-323-56	c 09	N72-22196 *	US-PATENT-CLASS-324-30R	c 14	N73-20478 *
US-PATENT-CLASS-321-14	c 09	N72-22196 *	US-PATENT-CLASS-323-60	c 09	N71-27053 *	US-PATENT-CLASS-324-329	c 35	N90-22023 *
US-PATENT-CLASS-321-15	c 09	N72-22203 *	US-PATENT-CLASS-323-82	c 09	N72-25262 *	US-PATENT-CLASS-324-32	c 14	N71-16014 *
US-PATENT-CLASS-321-15	c 33	N75-19522 *	US-PATENT-CLASS-323-89C	c 09	N72-22196 *	US-PATENT-CLASS-324-32	c 33	N75-18477 *

US-PATENT-CLASS-324-32	c 33	N75-19522 *	US-PATENT-CLASS-324-72	c 47	N82-24779 *	US-PATENT-CLASS-325-346	c 10	N73-16205 *
US-PATENT-CLASS-324-32	c 35	N78-28411 *	US-PATENT-CLASS-324-73AT	c 08	N72-22166 *	US-PATENT-CLASS-325-346	c 32	N74-30523 *
US-PATENT-CLASS-324-33	c 25	N69-39884 *	US-PATENT-CLASS-324-73AT	c 33	N81-26359 *	US-PATENT-CLASS-325-346	c 32	N77-24331 *
US-PATENT-CLASS-324-33	c 14	N70-35666 *	US-PATENT-CLASS-324-73R	c 33	N83-18996 *	US-PATENT-CLASS-325-347	c 07	N71-33696 *
US-PATENT-CLASS-324-33	c 24	N71-20518 *	US-PATENT-CLASS-324-73	c 14	N71-28991 *	US-PATENT-CLASS-325-348	c 07	N71-33696 *
US-PATENT-CLASS-324-33	c 14	N71-21090 *	US-PATENT-CLASS-324-74	c 35	N78-28411 *	US-PATENT-CLASS-325-349	c 32	N77-10392 *
US-PATENT-CLASS-324-33	c 14	N71-27090 *	US-PATENT-CLASS-324-77-E	c 33	N89-14385 *	US-PATENT-CLASS-325-363	c 07	N71-11267 *
US-PATENT-CLASS-324-34FL	c 35	N74-21018 *	US-PATENT-CLASS-324-77-R	c 33	N89-14385 *	US-PATENT-CLASS-325-363	c 14	N71-26774 *
US-PATENT-CLASS-324-34R	c 26	N76-18257 *	US-PATENT-CLASS-324-77B	c 60	N75-13539 *	US-PATENT-CLASS-325-363	c 14	N72-28437 *
US-PATENT-CLASS-324-34	c 25	N71-16073 *	US-PATENT-CLASS-324-77B	c 32	N79-10262 *	US-PATENT-CLASS-325-363	c 10	N73-25241 *
US-PATENT-CLASS-324-404	c 44	N80-18551 *	US-PATENT-CLASS-324-77G	c 32	N79-10262 *	US-PATENT-CLASS-325-363	c 35	N80-18359 *
US-PATENT-CLASS-324-40	c 38	N74-15395 *	US-PATENT-CLASS-324-77G	c 08	N72-20177 *	US-PATENT-CLASS-325-369	c 07	N71-27056 *
US-PATENT-CLASS-324-41	c 10	N72-28240 *	US-PATENT-CLASS-324-77H	c 35	N75-21582 *	US-PATENT-CLASS-325-372	c 32	N76-14321 *
US-PATENT-CLASS-324-427	c 35	N85-21596 *	US-PATENT-CLASS-324-77K	c 35	N79-10391 *	US-PATENT-CLASS-325-373	c 07	N72-33146 *
US-PATENT-CLASS-324-43R	c 35	N76-16390 *	US-PATENT-CLASS-324-77R	c 10	N73-25240 *	US-PATENT-CLASS-325-38B	c 35	N74-17885 *
US-PATENT-CLASS-324-43	c 14	N69-27423 *	US-PATENT-CLASS-324-77R	c 47	N82-24779 *	US-PATENT-CLASS-325-38	c 07	N72-20140 *
US-PATENT-CLASS-324-43	c 09	N70-40123 *	US-PATENT-CLASS-324-77	c 09	N71-10659 *	US-PATENT-CLASS-325-38	c 07	N72-25173 *
US-PATENT-CLASS-324-43	c 14	N71-15962 *	US-PATENT-CLASS-324-77	c 07	N71-24622 *	US-PATENT-CLASS-325-39	c 07	N72-11149 *
US-PATENT-CLASS-324-43	c 14	N71-26135 *	US-PATENT-CLASS-324-78-D	c 33	N89-14385 *	US-PATENT-CLASS-325-40	c 07	N73-26118 *
US-PATENT-CLASS-324-43	c 14	N71-27325 *	US-PATENT-CLASS-324-78-F	c 33	N89-14385 *	US-PATENT-CLASS-325-419	c 10	N73-16205 *
US-PATENT-CLASS-324-457	c 72	N84-28575 *	US-PATENT-CLASS-324-78D	c 09	N72-25257 *	US-PATENT-CLASS-325-419	c 07	N73-28012 *
US-PATENT-CLASS-324-466	c 33	N83-31954 *	US-PATENT-CLASS-324-78D	c 52	N74-12778 *	US-PATENT-CLASS-325-419	c 32	N74-20810 *
US-PATENT-CLASS-324-51	c 33	N80-26599 *	US-PATENT-CLASS-324-78D	c 32	N90-17005 *	US-PATENT-CLASS-325-419	c 32	N74-20811 *
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US-PATENT-CLASS-328-167	c 08	N73-26175 *	US-PATENT-CLASS-33-IQ	c 43	N79-26439 *	US-PATENT-CLASS-330-2	c 09	N72-25250 *
US-PATENT-CLASS-328-167	c 33	N82-24417 *	US-PATENT-CLASS-33-ISA	c 14	N72-28436 *	US-PATENT-CLASS-330-2	c 33	N78-10375 *
US-PATENT-CLASS-328-167	c 33	N85-29145 *	US-PATENT-CLASS-33-ISA	c 19	N74-21015 *	US-PATENT-CLASS-330-2	c 33	N79-22373 *
US-PATENT-CLASS-328-168	c 32	N74-19788 *	US-PATENT-CLASS-33-125R	c 52	N80-27072 *	US-PATENT-CLASS-330-30D	c 10	N72-20221 *
US-PATENT-CLASS-328-16	c 10	N72-20223 *	US-PATENT-CLASS-33-125	c 14	N72-11364 *	US-PATENT-CLASS-330-30D	c 09	N73-20232 *
US-PATENT-CLASS-328-171	c 10	N71-24844 *	US-PATENT-CLASS-33-143C	c 52	N82-22875 *	US-PATENT-CLASS-330-302	c 33	N85-29145 *
US-PATENT-CLASS-328-172	c 32	N74-19788 *	US-PATENT-CLASS-33-147D	c 37	N88-14361 *	US-PATENT-CLASS-330-306	c 33	N82-24417 *
US-PATENT-CLASS-328-172	c 33	N78-17294 *	US-PATENT-CLASS-33-147	c 15	N71-19489 *	US-PATENT-CLASS-330-306	c 33	N85-29145 *
US-PATENT-CLASS-328-186	c 09	N72-17157 *	US-PATENT-CLASS-33-148D	c 35	N75-19615 *	US-PATENT-CLASS-330-30	c 09	N71-19466 *
US-PATENT-CLASS-328-187	c 10	N73-20254 *	US-PATENT-CLASS-33-149	c 14	N71-17657 *	US-PATENT-CLASS-330-30	c 09	N71-19516 *
US-PATENT-CLASS-328-189	c 14	N72-27408 *	US-PATENT-CLASS-33-15A	c 08	N72-11172 *	US-PATENT-CLASS-330-30	c 09	N71-27016 *
US-PATENT-CLASS-328-190	c 33	N76-14371 *	US-PATENT-CLASS-33-155R	c 33	N76-19338 *	US-PATENT-CLASS-330-310	c 33	N83-34191 *
US-PATENT-CLASS-328-192	c 60	N81-15706 *	US-PATENT-CLASS-33-169F	c 35	N84-28018 *	US-PATENT-CLASS-330-311	c 33	N86-20670 *
US-PATENT-CLASS-328-1	c 23	N71-16099 *	US-PATENT-CLASS-33-174B	c 37	N76-21554 *	US-PATENT-CLASS-330-31	c 10	N71-26331 *
US-PATENT-CLASS-328-1	c 10	N71-19472 *	US-PATENT-CLASS-33-174D	c 33	N76-19338 *	US-PATENT-CLASS-330-31	c 10	N72-17172 *
US-PATENT-CLASS-328-1	c 09	N72-22200 *	US-PATENT-CLASS-33-174L	c 43	N79-26439 *	US-PATENT-CLASS-330-35	c 09	N72-17156 *
US-PATENT-CLASS-328-207	c 09	N71-28468 *	US-PATENT-CLASS-33-174S	c 14	N72-22445 *	US-PATENT-CLASS-330-35	c 09	N73-20232 *
US-PATENT-CLASS-328-207	c 10	N71-28860 *	US-PATENT-CLASS-33-174	c 14	N69-21363 *	US-PATENT-CLASS-330-35	c 33	N74-14939 *
US-PATENT-CLASS-328-207	c 09	N71-29139 *	US-PATENT-CLASS-33-174	c 14	N71-17658 *	US-PATENT-CLASS-330-4.3	c 16	N73-32391 *
US-PATENT-CLASS-328-207	c 10	N72-20221 *	US-PATENT-CLASS-33-174	c 14	N71-24693 *	US-PATENT-CLASS-330-4.3	c 36	N75-19655 *
US-PATENT-CLASS-328-20	c 10	N72-20223 *	US-PATENT-CLASS-33-180R	c 35	N75-12273 *	US-PATENT-CLASS-330-4.3	c 36	N75-27364 *
US-PATENT-CLASS-328-230	c 35	N84-12444 *	US-PATENT-CLASS-33-189	c 15	N71-26145 *	US-PATENT-CLASS-330-4.3	c 36	N75-32441 *
US-PATENT-CLASS-328-233	c 10	N71-22962 *	US-PATENT-CLASS-33-1	c 14	N70-36907 *	US-PATENT-CLASS-330-4.3	c 36	N76-29575 *
US-PATENT-CLASS-328-233	c 75	N75-13625 *	US-PATENT-CLASS-33-204C	c 08	N72-11172 *	US-PATENT-CLASS-330-4.3	c 36	N77-25502 *
US-PATENT-CLASS-328-233	c 37	N78-17386 *	US-PATENT-CLASS-33-207	c 15	N71-15571 *	US-PATENT-CLASS-330-4.3	c 73	N78-19920 *
US-PATENT-CLASS-328-24	c 09	N72-33204 *	US-PATENT-CLASS-33-23R	c 35	N74-32877 *	US-PATENT-CLASS-330-4.3	c 36	N82-28616 *
US-PATENT-CLASS-328-28	c 33	N87-21235 *	US-PATENT-CLASS-33-261	c 35	N91-14591 *	US-PATENT-CLASS-330-4.5	c 09	N72-25258 *
US-PATENT-CLASS-328-37	c 08	N71-12503 *	US-PATENT-CLASS-33-263	c 09	N91-14356 *	US-PATENT-CLASS-330-4.9	c 33	N74-32660 *
US-PATENT-CLASS-328-37	c 10	N73-20254 *	US-PATENT-CLASS-33-268	c 89	N74-30886 *	US-PATENT-CLASS-330-40	c 07	N71-28430 *
US-PATENT-CLASS-328-37	c 33	N76-14373 *	US-PATENT-CLASS-33-285	c 36	N74-21091 *	US-PATENT-CLASS-330-40	c 09	N72-17155 *
US-PATENT-CLASS-328-37	c 33	N81-17349 *	US-PATENT-CLASS-33-286	c 18	N76-14186 *	US-PATENT-CLASS-330-40	c 09	N73-20232 *
US-PATENT-CLASS-328-38	c 10	N72-20223 *	US-PATENT-CLASS-33-293	c 35	N84-16523 *	US-PATENT-CLASS-330-40	c 33	N75-30428 *
US-PATENT-CLASS-328-38	c 33	N77-24375 *	US-PATENT-CLASS-33-31	c 14	N71-21079 *	US-PATENT-CLASS-330-43	c 33	N79-10339 *
US-PATENT-CLASS-328-39	c 33	N77-24375 *	US-PATENT-CLASS-33-322	c 06	N83-33882 *	US-PATENT-CLASS-330-43	c 33	N82-26568 *
US-PATENT-CLASS-328-4.8	c 33	N77-24375 *	US-PATENT-CLASS-33-348	c 04	N84-14132 *	US-PATENT-CLASS-330-43	c 33	N86-21742 *
US-PATENT-CLASS-328-41	c 33	N75-31330 *	US-PATENT-CLASS-33-356	c 04	N76-20114 *	US-PATENT-CLASS-330-49	c 14	N70-35220 *
US-PATENT-CLASS-328-42	c 08	N71-19432 *	US-PATENT-CLASS-33-356	c 04	N77-19056 *	US-PATENT-CLASS-330-4	c 16	N71-15550 *
US-PATENT-CLASS-328-44	c 08	N71-29034 *	US-PATENT-CLASS-33-356	c 04	N84-14132 *	US-PATENT-CLASS-330-4	c 16	N71-24831 *
US-PATENT-CLASS-328-48	c 14	N73-30386 *	US-PATENT-CLASS-33-361	c 04	N84-14132 *	US-PATENT-CLASS-330-4	c 16	N72-28521 *
US-PATENT-CLASS-328-48	c 33	N74-10223 *	US-PATENT-CLASS-33-366	c 35	N78-32395 *	US-PATENT-CLASS-330-4	c 36	N75-15029 *
US-PATENT-CLASS-328-48	c 60	N81-15706 *	US-PATENT-CLASS-33-46R	c 19	N74-21015 *	US-PATENT-CLASS-330-4	c 36	N76-31512 *
US-PATENT-CLASS-328-49	c 10	N71-27137 *	US-PATENT-CLASS-33-536	c 37	N89-28831 *	US-PATENT-CLASS-330-4	c 36	N78-18410 *
US-PATENT-CLASS-328-55	c 33	N81-17349 *	US-PATENT-CLASS-33-72	c 15	N72-11386 *	US-PATENT-CLASS-330-4	c 36	N80-18372 *
US-PATENT-CLASS-328-58	c 08	N71-29138 *	US-PATENT-CLASS-33-75R	c 14	N72-28436 *	US-PATENT-CLASS-330-4	c 36	N83-35350 *
US-PATENT-CLASS-328-58	c 33	N74-32711 *	US-PATENT-CLASS-33-96	c 33	N75-30430 *	US-PATENT-CLASS-330-5.5	c 71	N77-26919 *
US-PATENT-CLASS-328-58	c 33	N75-18479 *	US-PATENT-CLASS-330-103	c 32	N74-22096 *	US-PATENT-CLASS-330-51	c 10	N71-28859 *

US-PATENT-CLASS-330-51	c 33	N79-22373 *	US-PATENT-CLASS-331-31	c 33	N85-29143 *	US-PATENT-CLASS-332-21	c 08	N72-25208 *
US-PATENT-CLASS-330-52	c 71	N78-14867 *	US-PATENT-CLASS-331-34	c 07	N72-11150 *	US-PATENT-CLASS-332-22	c 32	N77-14292 *
US-PATENT-CLASS-330-53	c 33	N74-32660 *	US-PATENT-CLASS-331-36C	c 33	N77-14334 *	US-PATENT-CLASS-332-22	c 33	N81-15192 *
US-PATENT-CLASS-330-59	c 09	N72-25250 *	US-PATENT-CLASS-331-36C	c 33	N85-29143 *	US-PATENT-CLASS-332-23-A	c 32	N87-25511 *
US-PATENT-CLASS-330-59	c 33	N74-21851 *	US-PATENT-CLASS-331-3	c 35	N76-15436 *	US-PATENT-CLASS-332-23R	c 32	N77-14292 *
US-PATENT-CLASS-330-59	c 33	N77-14335 *	US-PATENT-CLASS-331-3	c 33	N85-29143 *	US-PATENT-CLASS-332-23R	c 33	N81-15192 *
US-PATENT-CLASS-330-5	c 33	N75-27251 *	US-PATENT-CLASS-331-44	c 14	N72-27408 *	US-PATENT-CLASS-332-29	c 07	N71-28429 *
US-PATENT-CLASS-330-61	c 09	N71-23097 *	US-PATENT-CLASS-331-45	c 10	N73-16206 *	US-PATENT-CLASS-332-2	c 35	N75-19614 *
US-PATENT-CLASS-330-63	c 33	N75-30428 *	US-PATENT-CLASS-331-48	c 33	N81-17349 *	US-PATENT-CLASS-332-30V	c 33	N77-14334 *
US-PATENT-CLASS-330-69	c 33	N74-32712 *	US-PATENT-CLASS-331-4	c 09	N69-21543 *	US-PATENT-CLASS-332-30V	c 33	N77-17351 *
US-PATENT-CLASS-330-69	c 33	N75-19518 *	US-PATENT-CLASS-331-4	c 33	N74-10194 *	US-PATENT-CLASS-332-30	c 10	N71-27271 *
US-PATENT-CLASS-330-6	c 35	N75-13213 *	US-PATENT-CLASS-331-4	c 33	N74-10194 *	US-PATENT-CLASS-332-30	c 07	N71-28429 *
US-PATENT-CLASS-330-70CR	c 10	N73-27171 *	US-PATENT-CLASS-331-4	c 33	N78-32338 *	US-PATENT-CLASS-332-30	c 33	N77-21314 *
US-PATENT-CLASS-330-70R	c 09	N72-21245 *	US-PATENT-CLASS-331-56	c 33	N87-21232 *	US-PATENT-CLASS-332-31	c 08	N71-12500 *
US-PATENT-CLASS-330-80T	c 09	N73-20232 *	US-PATENT-CLASS-331-62	c 33	N74-11049 *	US-PATENT-CLASS-332-31	c 26	N72-21701 *
US-PATENT-CLASS-330-85	c 09	N72-21245 *	US-PATENT-CLASS-331-64	c 33	N78-32338 *	US-PATENT-CLASS-332-47	c 33	N75-19520 *
US-PATENT-CLASS-330-86	c 09	N73-20231 *	US-PATENT-CLASS-331-65	c 35	N75-29380 *	US-PATENT-CLASS-332-51W	c 07	N72-20141 *
US-PATENT-CLASS-330-86	c 33	N75-19518 *	US-PATENT-CLASS-331-65	c 33	N80-23559 *	US-PATENT-CLASS-332-52	c 33	N77-21314 *
US-PATENT-CLASS-330-86	c 33	N79-22373 *	US-PATENT-CLASS-331-66	c 07	N72-11150 *	US-PATENT-CLASS-332-7.51	c 16	N72-25485 *
US-PATENT-CLASS-330-8	c 33	N81-24338 *	US-PATENT-CLASS-331-66	c 33	N86-32624 *	US-PATENT-CLASS-332-7.51	c 07	N73-26119 *
US-PATENT-CLASS-330-8	c 33	N89-29681 *	US-PATENT-CLASS-331-78	c 09	N71-23598 *	US-PATENT-CLASS-332-7.51	c 33	N74-20859 *
US-PATENT-CLASS-330-94	c 10	N72-17172 *	US-PATENT-CLASS-331-78	c 08	N73-12175 *	US-PATENT-CLASS-332-7.51	c 36	N76-18427 *
US-PATENT-CLASS-330-9	c 33	N74-14939 *	US-PATENT-CLASS-331-78	c 33	N75-19515 *	US-PATENT-CLASS-332-7.5	c 36	N75-15029 *
US-PATENT-CLASS-331-DIG.1	c 36	N75-30524 *	US-PATENT-CLASS-331-7	c 07	N72-11150 *	US-PATENT-CLASS-332-7.5	c 36	N78-18410 *
US-PATENT-CLASS-331-DIG.2	c 33	N81-33405 *	US-PATENT-CLASS-331-82	c 33	N84-27974 *	US-PATENT-CLASS-332-7.5	c 36	N83-35350 *
US-PATENT-CLASS-331-1-A	c 33	N86-20668 *	US-PATENT-CLASS-331-82	c 33	N90-22724 *	US-PATENT-CLASS-332-751	c 36	N80-16321 *
US-PATENT-CLASS-331-1A	c 33	N74-10194 *	US-PATENT-CLASS-331-90	c 09	N73-15235 *	US-PATENT-CLASS-332-9R	c 08	N71-29138 *
US-PATENT-CLASS-331-1A	c 33	N75-25040 *	US-PATENT-CLASS-331-94.1	c 33	N85-29143 *	US-PATENT-CLASS-332-9	c 07	N71-12390 *
US-PATENT-CLASS-331-1A	c 33	N79-11313 *	US-PATENT-CLASS-331-94.1	c 33	N88-26596 *	US-PATENT-CLASS-333-104	c 33	N82-16340 *
US-PATENT-CLASS-331-107A	c 71	N77-26919 *	US-PATENT-CLASS-331-94.5A	c 16	N73-33397 *	US-PATENT-CLASS-333-12	c 32	N80-32605 *
US-PATENT-CLASS-331-107G	c 26	N72-25679 *	US-PATENT-CLASS-331-94.5A	c 36	N75-27364 *	US-PATENT-CLASS-333-12	c 33	N81-27397 *
US-PATENT-CLASS-331-107G	c 09	N73-15235 *	US-PATENT-CLASS-331-94.5C	c 36	N75-31427 *	US-PATENT-CLASS-333-14	c 32	N74-19788 *
US-PATENT-CLASS-331-107	c 09	N71-18721 *	US-PATENT-CLASS-331-94.5C	c 36	N76-18428 *	US-PATENT-CLASS-333-162	c 33	N84-16452 *
US-PATENT-CLASS-331-107	c 26	N72-21701 *	US-PATENT-CLASS-331-94.5C	c 36	N76-24553 *	US-PATENT-CLASS-333-162	c 33	N84-27974 *
US-PATENT-CLASS-331-108A	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5C	c 36	N76-29575 *	US-PATENT-CLASS-333-16	c 33	N74-17927 *
US-PATENT-CLASS-331-108D	c 33	N86-32624 *	US-PATENT-CLASS-331-94.5C	c 36	N80-14384 *	US-PATENT-CLASS-333-17R	c 33	N78-32340 *
US-PATENT-CLASS-331-109	c 10	N71-27271 *	US-PATENT-CLASS-331-94.5C	c 36	N82-13415 *	US-PATENT-CLASS-333-17	c 44	N74-19870 *
US-PATENT-CLASS-331-109	c 33	N74-26732 *	US-PATENT-CLASS-331-94.5D	c 33	N74-20859 *	US-PATENT-CLASS-333-18	c 33	N74-17927 *
US-PATENT-CLASS-331-10	c 07	N72-11150 *	US-PATENT-CLASS-331-94.5D	c 36	N77-19416 *	US-PATENT-CLASS-333-18	c 32	N76-21366 *
US-PATENT-CLASS-331-111	c 10	N71-23669 *	US-PATENT-CLASS-331-94.5D	c 36	N77-25502 *	US-PATENT-CLASS-333-204	c 33	N81-17348 *
US-PATENT-CLASS-331-111	c 09	N72-21247 *	US-PATENT-CLASS-331-94.5D	c 35	N77-27366 *	US-PATENT-CLASS-333-20	c 33	N82-24418 *
US-PATENT-CLASS-331-113A	c 09	N72-25253 *	US-PATENT-CLASS-331-94.5D	c 36	N82-13415 *	US-PATENT-CLASS-333-21A	c 07	N71-33606 *
US-PATENT-CLASS-331-113A	c 09	N72-25254 *	US-PATENT-CLASS-331-94.5G	c 36	N75-31426 *	US-PATENT-CLASS-333-21R	c 33	N75-30430 *
US-PATENT-CLASS-331-113A	c 33	N74-11049 *	US-PATENT-CLASS-331-94.5G	c 36	N77-19416 *	US-PATENT-CLASS-333-214	c 33	N87-22895 *
US-PATENT-CLASS-331-113R	c 33	N82-18494 *	US-PATENT-CLASS-331-94.5G	c 36	N78-17366 *	US-PATENT-CLASS-333-217	c 33	N87-22895 *
US-PATENT-CLASS-331-113	c 09	N70-38995 *	US-PATENT-CLASS-331-94.5G	c 36	N78-27402 *	US-PATENT-CLASS-333-21	c 07	N71-10676 *
US-PATENT-CLASS-331-113	c 10	N71-19418 *	US-PATENT-CLASS-331-94.5G	c 36	N79-18307 *	US-PATENT-CLASS-333-22F	c 32	N83-27085 *
US-PATENT-CLASS-331-113	c 09	N71-19470 *	US-PATENT-CLASS-331-94.5G	c 33	N82-24418 *	US-PATENT-CLASS-333-231	c 33	N85-29143 *
US-PATENT-CLASS-331-113	c 10	N71-25882 *	US-PATENT-CLASS-331-94.5K	c 36	N74-15145 *	US-PATENT-CLASS-333-24.2	c 36	N83-35350 *
US-PATENT-CLASS-331-113	c 10	N71-25950 *	US-PATENT-CLASS-331-94.5L	c 72	N79-13826 *	US-PATENT-CLASS-333-24R	c 09	N72-29172 *
US-PATENT-CLASS-331-113	c 09	N71-28810 *	US-PATENT-CLASS-331-94.5M	c 36	N75-19654 *	US-PATENT-CLASS-333-24R	c 36	N80-18372 *
US-PATENT-CLASS-331-114	c 33	N77-17351 *	US-PATENT-CLASS-331-94.5PE	c 36	N75-32441 *	US-PATENT-CLASS-333-246	c 33	N82-16340 *
US-PATENT-CLASS-331-115	c 10	N72-33230 *	US-PATENT-CLASS-331-94.5PE	c 36	N77-19416 *	US-PATENT-CLASS-333-247	c 33	N91-14552 *
US-PATENT-CLASS-331-115	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5PE	c 36	N78-27402 *	US-PATENT-CLASS-333-252	c 32	N80-32605 *
US-PATENT-CLASS-331-116-FE	c 33	N86-19515 *	US-PATENT-CLASS-331-94.5PE	c 72	N79-13826 *	US-PATENT-CLASS-333-254	c 32	N83-27085 *
US-PATENT-CLASS-331-116-R	c 33	N87-21232 *	US-PATENT-CLASS-331-94.5PE	c 33	N82-24418 *	US-PATENT-CLASS-333-262	c 33	N80-18285 *
US-PATENT-CLASS-331-116FE	c 33	N90-23635 *	US-PATENT-CLASS-331-94.5P	c 36	N75-19655 *	US-PATENT-CLASS-333-30	c 10	N71-25900 *
US-PATENT-CLASS-331-116R	c 10	N72-33230 *	US-PATENT-CLASS-331-94.5P	c 36	N75-31426 *	US-PATENT-CLASS-333-6	c 07	N71-33606 *
US-PATENT-CLASS-331-116R	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5P	c 36	N77-25502 *	US-PATENT-CLASS-333-70CR	c 10	N72-17171 *
US-PATENT-CLASS-331-116R	c 33	N86-32624 *	US-PATENT-CLASS-331-94.5P	c 36	N78-27402 *	US-PATENT-CLASS-333-70R	c 32	N77-18307 *
US-PATENT-CLASS-331-117-FE	c 33	N86-19515 *	US-PATENT-CLASS-331-94.5P	c 72	N79-13826 *	US-PATENT-CLASS-333-72	c 10	N71-25900 *
US-PATENT-CLASS-331-117-R	c 33	N87-21232 *	US-PATENT-CLASS-331-94.5P	c 36	N79-18307 *	US-PATENT-CLASS-333-72	c 71	N77-26919 *
US-PATENT-CLASS-331-117FE	c 33	N90-23635 *	US-PATENT-CLASS-331-94.5P	c 36	N80-14384 *	US-PATENT-CLASS-333-73R	c 09	N73-26195 *
US-PATENT-CLASS-331-117R	c 33	N74-26732 *	US-PATENT-CLASS-331-94.5P	c 36	N82-13415 *	US-PATENT-CLASS-333-73S	c 09	N73-26195 *
US-PATENT-CLASS-331-117	c 10	N71-27271 *	US-PATENT-CLASS-331-94.5S	c 36	N74-15145 *	US-PATENT-CLASS-333-73W	c 07	N72-20141 *
US-PATENT-CLASS-331-117	c 09	N72-22203 *	US-PATENT-CLASS-331-94.5S	c 36	N77-25499 *	US-PATENT-CLASS-333-73	c 07	N69-24323 *
US-PATENT-CLASS-331-12	c 33	N78-32338 *	US-PATENT-CLASS-331-94.5T	c 35	N77-27366 *	US-PATENT-CLASS-333-73	c 09	N71-23573 *
US-PATENT-CLASS-331-135	c 10	N73-32145 *	US-PATENT-CLASS-331-94.5T	c 36	N78-17366 *	US-PATENT-CLASS-333-75	c 32	N77-18307 *
US-PATENT-CLASS-331-14	c 09	N72-21247 *	US-PATENT-CLASS-331-94.5	c 16	N71-18614 *	US-PATENT-CLASS-333-76	c 32	N77-18307 *
US-PATENT-CLASS-331-14	c 33	N74-10194 *	US-PATENT-CLASS-331-94.5	c 16	N71-24832 *	US-PATENT-CLASS-333-79	c 10	N70-41964 *
US-PATENT-CLASS-331-14	c 33	N79-11313 *	US-PATENT-CLASS-331-94.5	c 23	N71-26722 *	US-PATENT-CLASS-333-79	c 09	N72-25256 *
US-PATENT-CLASS-331-159	c 33	N74-20862 *	US-PATENT-CLASS-331-94.5	c 15	N71-27135 *	US-PATENT-CLASS-333-7	c 07	N71-33606 *
US-PATENT-CLASS-331-162	c 33	N88-26596 *	US-PATENT-CLASS-331-94.5	c 23	N71-29125 *	US-PATENT-CLASS-333-7	c 07	N72-25170 *
US-PATENT-CLASS-331-177-R	c 33	N87-22895 *	US-PATENT-CLASS-331-94.5	c 16	N71-33410 *	US-PATENT-CLASS-333-80R	c 33	N74-32712 *
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US-PATENT-CLASS-343-770	c 09	N72-31235 *	US-PATENT-CLASS-343-873	c 09	N72-25247 *	US-PATENT-CLASS-350-157	c 74	N79-14891 *
US-PATENT-CLASS-343-770	c 33	N76-14372 *	US-PATENT-CLASS-343-876	c 32	N76-15329 *	US-PATENT-CLASS-350-159	c 74	N78-17865 *
US-PATENT-CLASS-343-771	c 07	N71-28809 *	US-PATENT-CLASS-343-876	c 32	N85-29118 *	US-PATENT-CLASS-350-160R	c 14	N72-25410 *
US-PATENT-CLASS-343-771	c 07	N72-11148 *	US-PATENT-CLASS-343-880	c 07	N73-26117 *	US-PATENT-CLASS-350-160R	c 26	N72-25680 *
US-PATENT-CLASS-343-771	c 09	N72-21244 *	US-PATENT-CLASS-343-880	c 18	N80-14183 *	US-PATENT-CLASS-350-160	c 36	N76-18427 *
US-PATENT-CLASS-343-771	c 07	N72-22127 *	US-PATENT-CLASS-343-880	c 32	N89-25363 *	US-PATENT-CLASS-350-161	c 26	N72-27784 *
US-PATENT-CLASS-343-771	c 09	N72-25247 *	US-PATENT-CLASS-343-881	c 37	N86-25789 *	US-PATENT-CLASS-350-161	c 36	N75-31477 *
US-PATENT-CLASS-343-771	c 09	N72-31235 *	US-PATENT-CLASS-343-882	c 33	N76-32457 *	US-PATENT-CLASS-350-162.13	c 74	N89-14078 *
US-PATENT-CLASS-343-772	c 07	N72-20141 *	US-PATENT-CLASS-343-882	c 37	N86-25789 *	US-PATENT-CLASS-350-162R	c 74	N80-21140 *
US-PATENT-CLASS-343-772	c 32	N81-25278 *	US-PATENT-CLASS-343-883	c 07	N73-26117 *	US-PATENT-CLASS-350-162SF	c 23	N73-30666 *
US-PATENT-CLASS-343-773	c 07	N72-20141 *	US-PATENT-CLASS-343-883	c 18	N80-14183 *	US-PATENT-CLASS-350-162SF	c 74	N76-31998 *
US-PATENT-CLASS-343-776	c 07	N71-12396 *	US-PATENT-CLASS-343-883	c 37	N86-25791 *	US-PATENT-CLASS-350-162SF	c 74	N77-28932 *
US-PATENT-CLASS-343-777	c 07	N71-27233 *	US-PATENT-CLASS-343-884	c 07	N71-27191 *	US-PATENT-CLASS-350-162SF	c 36	N77-32478 *
US-PATENT-CLASS-343-777	c 07	N72-25174 *	US-PATENT-CLASS-343-889	c 07	N73-26117 *	US-PATENT-CLASS-350-162	c 14	N72-17323 *
US-PATENT-CLASS-343-777	c 32	N89-11961 *	US-PATENT-CLASS-343-893	c 09	N72-21244 *	US-PATENT-CLASS-350-163	c 36	N88-14350 *
US-PATENT-CLASS-343-778	c 32	N89-11961 *	US-PATENT-CLASS-343-893	c 07	N73-28013 *	US-PATENT-CLASS-350-165	c 27	N78-31233 *
US-PATENT-CLASS-343-779	c 07	N71-11285 *	US-PATENT-CLASS-343-895	c 09	N73-19234 *	US-PATENT-CLASS-350-166	c 44	N83-34448 *
US-PATENT-CLASS-343-779	c 10	N72-22235 *	US-PATENT-CLASS-343-895	c 07	N73-26117 *	US-PATENT-CLASS-350-168	c 74	N85-23396 *
US-PATENT-CLASS-343-779	c 07	N72-25174 *	US-PATENT-CLASS-343-895	c 32	N80-23524 *	US-PATENT-CLASS-350-16	c 14	N72-22444 *
US-PATENT-CLASS-343-779	c 32	N76-15329 *	US-PATENT-CLASS-343-895	c 32	N82-27558 *	US-PATENT-CLASS-350-170	c 73	N78-32848 *
US-PATENT-CLASS-343-779	c 33	N76-27472 *	US-PATENT-CLASS-343-9PS	c 32	N83-19968 *	US-PATENT-CLASS-350-170	c 74	N83-10900 *
US-PATENT-CLASS-343-779	c 32	N89-11961 *	US-PATENT-CLASS-343-9PS	c 32	N83-31918 *	US-PATENT-CLASS-350-171	c 23	N72-26895 *
US-PATENT-CLASS-343-781CA	c 32	N78-31321 *	US-PATENT-CLASS-343-9R	c 32	N84-22820 *	US-PATENT-CLASS-350-171	c 74	N83-17305 *
US-PATENT-CLASS-343-781P	c 46	N82-12685 *	US-PATENT-CLASS-343-909	c 32	N74-11000 *	US-PATENT-CLASS-350-172	c 74	N84-23248 *
US-PATENT-CLASS-343-781R	c 32	N81-25278 *	US-PATENT-CLASS-343-909	c 35	N76-15435 *	US-PATENT-CLASS-350-173	c 73	N78-32848 *
US-PATENT-CLASS-343-781	c 09	N70-35219 *	US-PATENT-CLASS-343-909	c 33	N79-28416 *	US-PATENT-CLASS-350-173	c 74	N83-36898 *
US-PATENT-CLASS-343-781	c 09	N70-35382 *	US-PATENT-CLASS-343-909	c 32	N80-14281 *	US-PATENT-CLASS-350-173	c 74	N84-23248 *
US-PATENT-CLASS-343-781	c 09	N70-35425 *	US-PATENT-CLASS-343-912	c 07	N72-21117 *	US-PATENT-CLASS-350-174	c 74	N77-20882 *
US-PATENT-CLASS-343-781	c 07	N72-32169 *	US-PATENT-CLASS-343-912	c 07	N72-22127 *	US-PATENT-CLASS-350-174	c 73	N78-32848 *
US-PATENT-CLASS-343-781	c 32	N74-11000 *	US-PATENT-CLASS-343-912	c 32	N76-18295 *	US-PATENT-CLASS-350-174	c 36	N88-14350 *
US-PATENT-CLASS-343-781	c 33	N75-19516 *	US-PATENT-CLASS-343-915	c 31	N71-16102 *	US-PATENT-CLASS-350-175E	c 74	N80-27185 *
US-PATENT-CLASS-343-781	c 32	N76-21365 *	US-PATENT-CLASS-343-915	c 09	N71-20658 *	US-PATENT-CLASS-350-175FS	c 14	N72-25414 *
US-PATENT-CLASS-343-782	c 07	N73-14130 *	US-PATENT-CLASS-343-915	c 07	N72-32169 *	US-PATENT-CLASS-350-175NG	c 27	N78-31233 *
US-PATENT-CLASS-343-782	c 32	N78-31321 *	US-PATENT-CLASS-343-915	c 07	N73-14130 *	US-PATENT-CLASS-350-189	c 23	N71-24857 *
US-PATENT-CLASS-343-784	c 07	N71-28980 *	US-PATENT-CLASS-343-915	c 07	N73-24176 *	US-PATENT-CLASS-350-199	c 14	N73-30393 *
US-PATENT-CLASS-343-786	c 07	N71-15907 *	US-PATENT-CLASS-343-915	c 32	N76-18295 *	US-PATENT-CLASS-350-19	c 14	N72-22441 *
US-PATENT-CLASS-343-786	c 07	N71-22750 *	US-PATENT-CLASS-343-915	c 33	N76-32457 *	US-PATENT-CLASS-350-1	c 23	N69-24332 #
US-PATENT-CLASS-343-786	c 07	N71-26101 *	US-PATENT-CLASS-343-915	c 32	N89-25363 *	US-PATENT-CLASS-350-1	c 07	N71-29065 *
US-PATENT-CLASS-343-786	c 07	N71-27233 *	US-PATENT-CLASS-343-9	c 32	N75-15854 *	US-PATENT-CLASS-350-1	c 16	N72-12440 *
US-PATENT-CLASS-343-786	c 07	N72-20141 *	US-PATENT-CLASS-343-9	c 32	N79-10264 *	US-PATENT-CLASS-350-1	c 24	N76-24363 *
US-PATENT-CLASS-343-786	c 10	N72-22235 *	US-PATENT-CLASS-346-107A	c 14	N72-18411 *	US-PATENT-CLASS-350-1	c 74	N78-15879 *
US-PATENT-CLASS-343-786	c 07	N72-25174 *	US-PATENT-CLASS-346-107	c 23	N71-23976 *	US-PATENT-CLASS-350-202	c 23	N73-20741 *
US-PATENT-CLASS-343-786	c 09	N72-31235 *	US-PATENT-CLASS-346-108	c 35	N74-15831 *	US-PATENT-CLASS-350-202	c 74	N77-28932 *
US-PATENT-CLASS-343-786	c 32	N74-20863 *	US-PATENT-CLASS-346-110	c 14	N73-32322 *	US-PATENT-CLASS-350-203	c 14	N72-25409 *
US-PATENT-CLASS-343-786	c 32	N76-15330 *	US-PATENT-CLASS-346-138	c 21	N73-13644 *	US-PATENT-CLASS-350-204	c 14	N73-30393 *
US-PATENT-CLASS-343-786	c 32	N76-21365 *	US-PATENT-CLASS-346-138	c 35	N74-15831 *	US-PATENT-CLASS-350-204	c 74	N78-17866 *
US-PATENT-CLASS-343-786	c 32	N80-23524 *	US-PATENT-CLASS-346-1	c 12	N71-20815 *	US-PATENT-CLASS-350-211	c 44	N76-14602 *
US-PATENT-CLASS-343-786	c 32	N80-29539 *	US-PATENT-CLASS-346-1	c 09	N72-21246 *	US-PATENT-CLASS-350-213	c 14	N71-15622 *
US-PATENT-CLASS-343-786	c 32	N81-25278 *	US-PATENT-CLASS-346-23	c 14	N72-18411 *	US-PATENT-CLASS-350-226	c 74	N80-27185 *
US-PATENT-CLASS-343-789	c 32	N81-14187 *	US-PATENT-CLASS-346-24	c 35	N74-15831 *	US-PATENT-CLASS-350-236	c 74	N74-15095 *
US-PATENT-CLASS-343-789	c 32	N82-27558 *	US-PATENT-CLASS-346-29	c 09	N72-21246 *	US-PATENT-CLASS-350-23	c 14	N72-22441 *
US-PATENT-CLASS-343-795	c 32	N82-11336 *	US-PATENT-CLASS-346-33R	c 35	N74-32877 *	US-PATENT-CLASS-350-253	c 35	N77-27366 *
US-PATENT-CLASS-343-797	c 09	N71-24842 *	US-PATENT-CLASS-346-44	c 09	N69-21467 #	US-PATENT-CLASS-350-25	c 74	N80-21138 *
US-PATENT-CLASS-343-797	c 07	N72-22127 *	US-PATENT-CLASS-346-50	c 14	N71-21006 *	US-PATENT-CLASS-350-269	c 33	N74-20861 *
US-PATENT-CLASS-343-797	c 09	N72-31235 *	US-PATENT-CLASS-346-74MD	c 21	N73-13644 *	US-PATENT-CLASS-350-26	c 14	N72-22441 *
US-PATENT-CLASS-343-797	c 07	N73-28013 *	US-PATENT-CLASS-346-74MT	c 35	N79-16246 *	US-PATENT-CLASS-350-270	c 70	N74-21300 *
US-PATENT-CLASS-343-797	c 32	N74-20863 *	US-PATENT-CLASS-346R	c 73	N77-18891 *	US-PATENT-CLASS-350-275	c 09	N71-19479 *
US-PATENT-CLASS-343-797	c 33	N76-14372 *	US-PATENT-CLASS-349	c 25	N79-28533 *	US-PATENT-CLASS-350-276-R	c 74	N86-20125 *
US-PATENT-CLASS-343-797	c 32	N81-14187 *	US-PATENT-CLASS-35-10.2	c 14	N71-15621 *	US-PATENT-CLASS-350-276R	c 74	N86-28732 *
US-PATENT-CLASS-343-799	c 07	N71-27233 *	US-PATENT-CLASS-35-12C	c 14	N73-27377 *	US-PATENT-CLASS-350-285	c 14	N71-15605 *
US-PATENT-CLASS-343-803	c 07	N73-28013 *	US-PATENT-CLASS-35-12C	c 09	N75-15662 *	US-PATENT-CLASS-350-285	c 14	N71-17662 *
US-PATENT-CLASS-343-823	c 07	N71-28979 *	US-PATENT-CLASS-35-12C	c 74	N79-13855 *	US-PATENT-CLASS-350-285	c 19	N71-26674 *
US-PATENT-CLASS-343-830	c 32	N80-32604 *	US-PATENT-CLASS-35-12E	c 09	N74-30597 *	US-PATENT-CLASS-350-285	c 15	N72-11386 *
US-PATENT-CLASS-343-833	c 31	N70-34135 *	US-PATENT-CLASS-35-12E	c 09	N79-31228 *	US-PATENT-CLASS-350-285	c 16	N73-33397 *
US-PATENT-CLASS-343-837	c 07	N72-32169 *	US-PATENT-CLASS-35-12H	c 09	N79-31228 *	US-PATENT-CLASS-350-285	c 74	N74-15095 *
US-PATENT-CLASS-343-837	c 07	N73-14130 *	US-PATENT-CLASS-35-12N	c 09	N76-24280 *	US-PATENT-CLASS-350-285	c 74	N80-21138 *

US-PATENT-CLASS-350-286	c 07	N71-29065 *	US-PATENT-CLASS-350-49	c 14	N72-22441 *	US-PATENT-CLASS-356-114	c 35	N76-31490 *
US-PATENT-CLASS-350-286	c 73	N78-32848 *	US-PATENT-CLASS-350-500	c 35	N81-14590 *	US-PATENT-CLASS-356-117	c 23	N71-16101 *
US-PATENT-CLASS-350-286	c 74	N83-10900 *	US-PATENT-CLASS-350-505	c 74	N85-23396 *	US-PATENT-CLASS-356-120	c 74	N78-27904 *
US-PATENT-CLASS-350-287	c 15	N72-11386 *	US-PATENT-CLASS-350-505	c 74	N86-28732 *	US-PATENT-CLASS-356-123	c 74	N76-19935 *
US-PATENT-CLASS-350-287	c 74	N83-13978 *	US-PATENT-CLASS-350-52	c 14	N72-22441 *	US-PATENT-CLASS-356-124	c 74	N76-19935 *
US-PATENT-CLASS-350-287	c 35	N91-14590 *	US-PATENT-CLASS-350-52	c 14	N72-22444 *	US-PATENT-CLASS-356-124	c 74	N79-11865 *
US-PATENT-CLASS-350-288	c 23	N71-29123 *	US-PATENT-CLASS-350-537	c 74	N86-20125 *	US-PATENT-CLASS-356-128	c 76	N87-25862 *
US-PATENT-CLASS-350-288	c 12	N76-15189 *	US-PATENT-CLASS-350-55	c 23	N71-33229 *	US-PATENT-CLASS-356-129	c 74	N79-20856 *
US-PATENT-CLASS-350-288	c 74	N77-28933 *	US-PATENT-CLASS-350-55	c 14	N73-30393 *	US-PATENT-CLASS-356-129	c 76	N87-25862 *
US-PATENT-CLASS-350-288	c 44	N79-11471 *	US-PATENT-CLASS-350-55	c 23	N73-30666 *	US-PATENT-CLASS-356-138	c 14	N72-20379 *
US-PATENT-CLASS-350-288	c 44	N79-24433 *	US-PATENT-CLASS-350-55	c 89	N79-10969 *	US-PATENT-CLASS-356-138	c 16	N73-33397 *
US-PATENT-CLASS-350-292	c 35	N75-12273 *	US-PATENT-CLASS-350-55	c 74	N80-33210 *	US-PATENT-CLASS-356-141	c 14	N72-27409 *
US-PATENT-CLASS-350-292	c 44	N79-14529 *	US-PATENT-CLASS-350-572	c 36	N88-14350 *	US-PATENT-CLASS-356-141	c 14	N73-28490 *
US-PATENT-CLASS-350-292	c 44	N79-24432 *	US-PATENT-CLASS-350-573	c 36	N88-14350 *	US-PATENT-CLASS-356-141	c 36	N74-21091 *
US-PATENT-CLASS-350-293	c 16	N73-16536 *	US-PATENT-CLASS-350-576	c 35	N91-14591 *	US-PATENT-CLASS-356-141	c 89	N74-30886 *
US-PATENT-CLASS-350-293	c 12	N76-15189 *	US-PATENT-CLASS-350-580	c 74	N86-20125 *	US-PATENT-CLASS-356-141	c 74	N77-22951 *
US-PATENT-CLASS-350-293	c 44	N76-24696 *	US-PATENT-CLASS-350-58	c 14	N71-15604 *	US-PATENT-CLASS-356-141	c 09	N91-14356 *
US-PATENT-CLASS-350-293	c 44	N78-10554 *	US-PATENT-CLASS-350-6.5	c 32	N80-24510 *	US-PATENT-CLASS-356-141	c 35	N91-15512 *
US-PATENT-CLASS-350-293	c 44	N79-14529 *	US-PATENT-CLASS-350-6.5	c 74	N87-21679 *	US-PATENT-CLASS-356-147	c 89	N74-30886 *
US-PATENT-CLASS-350-294	c 89	N79-10969 *	US-PATENT-CLASS-350-6.6	c 32	N80-24510 *	US-PATENT-CLASS-356-148	c 16	N73-33397 *
US-PATENT-CLASS-350-294	c 44	N79-24432 *	US-PATENT-CLASS-350-619	c 74	N85-23396 *	US-PATENT-CLASS-356-150	c 15	N71-28740 *
US-PATENT-CLASS-350-294	c 32	N80-24510 *	US-PATENT-CLASS-350-6	c 14	N69-27461 *	US-PATENT-CLASS-356-150	c 74	N80-21138 *
US-PATENT-CLASS-350-295	c 44	N77-32583 *	US-PATENT-CLASS-350-6	c 36	N74-15145 *	US-PATENT-CLASS-356-152	c 15	N71-28740 *
US-PATENT-CLASS-350-295	c 44	N80-14473 *	US-PATENT-CLASS-350-79	c 14	N72-32452 *	US-PATENT-CLASS-356-152	c 16	N72-13437 *
US-PATENT-CLASS-350-296	c 44	N79-24432 *	US-PATENT-CLASS-350-7	c 74	N74-15095 *	US-PATENT-CLASS-356-152	c 14	N72-20379 *
US-PATENT-CLASS-350-296	c 44	N80-14473 *	US-PATENT-CLASS-350-86	c 14	N72-22445 *	US-PATENT-CLASS-356-152	c 14	N72-27409 *
US-PATENT-CLASS-350-299	c 74	N74-21304 *	US-PATENT-CLASS-350-96.10	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 14	N73-25462 *
US-PATENT-CLASS-350-299	c 44	N76-24696 *	US-PATENT-CLASS-350-96.15	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 36	N74-15145 *
US-PATENT-CLASS-350-299	c 74	N77-28932 *	US-PATENT-CLASS-350-96.15	c 74	N85-29749 *	US-PATENT-CLASS-356-152	c 36	N74-21091 *
US-PATENT-CLASS-350-299	c 44	N78-10554 *	US-PATENT-CLASS-350-96.16	c 74	N83-29032 *	US-PATENT-CLASS-356-152	c 74	N74-21304 *
US-PATENT-CLASS-350-299	c 44	N78-31526 *	US-PATENT-CLASS-350-96.21	c 74	N89-25689 *	US-PATENT-CLASS-356-152	c 74	N77-22951 *
US-PATENT-CLASS-350-299	c 44	N79-11471 *	US-PATENT-CLASS-350-96.25	c 33	N81-29342 *	US-PATENT-CLASS-356-152	c 74	N80-21138 *
US-PATENT-CLASS-350-299	c 44	N79-24433 *	US-PATENT-CLASS-350-96.25	c 74	N89-25689 *	US-PATENT-CLASS-356-152	c 37	N81-27519 *
US-PATENT-CLASS-350-299	c 36	N84-14509 *	US-PATENT-CLASS-350-96R	c 60	N77-14751 *	US-PATENT-CLASS-356-152	c 09	N91-14356 *
US-PATENT-CLASS-350-2	c 23	N71-30027 *	US-PATENT-CLASS-350-96R	c 60	N77-32731 *	US-PATENT-CLASS-356-152	c 35	N91-15512 *
US-PATENT-CLASS-350-3.5	c 16	N71-15551 *	US-PATENT-CLASS-350-96R	c 60	N78-10709 *	US-PATENT-CLASS-356-153	c 15	N71-28740 *
US-PATENT-CLASS-350-3.5	c 16	N71-15565 *	US-PATENT-CLASS-350-96WG	c 36	N75-31427 *	US-PATENT-CLASS-356-153	c 23	N71-29125 *
US-PATENT-CLASS-350-3.5	c 16	N71-15567 *	US-PATENT-CLASS-350-96WG	c 36	N76-18428 *	US-PATENT-CLASS-356-153	c 16	N73-33397 *
US-PATENT-CLASS-350-3.5	c 16	N71-26154 *	US-PATENT-CLASS-350-96WG	c 36	N76-24553 *	US-PATENT-CLASS-356-153	c 18	N76-14186 *
US-PATENT-CLASS-350-3.5	c 16	N71-29131 *	US-PATENT-CLASS-350-96	c 07	N71-26291 *	US-PATENT-CLASS-356-154	c 15	N71-26673 *
US-PATENT-CLASS-350-3.5	c 14	N72-17324 *	US-PATENT-CLASS-351-166	c 74	N78-32854 *	US-PATENT-CLASS-356-159	c 36	N78-14380 *
US-PATENT-CLASS-350-3.5	c 16	N73-30476 *	US-PATENT-CLASS-351-203	c 52	N89-16256 *	US-PATENT-CLASS-356-160	c 36	N78-14380 *
US-PATENT-CLASS-350-3.5	c 35	N74-15146 *	US-PATENT-CLASS-351-206	c 52	N87-24874 *	US-PATENT-CLASS-356-161	c 26	N73-26751 *
US-PATENT-CLASS-350-3.5	c 35	N74-17153 *	US-PATENT-CLASS-351-208	c 52	N87-24874 *	US-PATENT-CLASS-356-162	c 66	N76-19888 *
US-PATENT-CLASS-350-3.5	c 35	N74-26946 *	US-PATENT-CLASS-351-237	c 52	N89-16256 *	US-PATENT-CLASS-356-165	c 38	N78-17396 *
US-PATENT-CLASS-350-3.5	c 35	N75-25124 *	US-PATENT-CLASS-351-23	c 05	N73-26072 *	US-PATENT-CLASS-356-166	c 14	N71-23175 *
US-PATENT-CLASS-350-3.5	c 35	N75-27328 *	US-PATENT-CLASS-351-23	c 52	N76-30793 *	US-PATENT-CLASS-356-167	c 14	N72-11364 *
US-PATENT-CLASS-350-3.5	c 35	N76-18402 *	US-PATENT-CLASS-351-30	c 05	N73-26072 *	US-PATENT-CLASS-356-167	c 66	N76-19888 *
US-PATENT-CLASS-350-3.5	c 35	N78-17357 *	US-PATENT-CLASS-351-30	c 52	N76-30793 *	US-PATENT-CLASS-356-167	c 74	N78-27904 *
US-PATENT-CLASS-350-3.5	c 38	N78-32447 *	US-PATENT-CLASS-351-36	c 05	N73-26072 *	US-PATENT-CLASS-356-169	c 60	N78-10709 *
US-PATENT-CLASS-350-3.64	c 35	N91-13694 *	US-PATENT-CLASS-351-36	c 52	N76-30793 *	US-PATENT-CLASS-356-171	c 74	N77-22950 *
US-PATENT-CLASS-350-3.73	c 36	N87-23960 *	US-PATENT-CLASS-351-38	c 54	N75-27759 *	US-PATENT-CLASS-356-172	c 16	N73-33397 *
US-PATENT-CLASS-350-3.81	c 36	N87-23960 *	US-PATENT-CLASS-352-169	c 14	N73-14427 *	US-PATENT-CLASS-356-172	c 36	N74-21091 *
US-PATENT-CLASS-350-301	c 74	N81-17886 *	US-PATENT-CLASS-352-171	c 35	N82-26628 *	US-PATENT-CLASS-356-172	c 74	N77-22951 *
US-PATENT-CLASS-350-310	c 11	N69-24321 *	US-PATENT-CLASS-352-84	c 16	N71-33410 *	US-PATENT-CLASS-356-17	c 14	N72-21409 *
US-PATENT-CLASS-350-310	c 23	N71-24868 *	US-PATENT-CLASS-352-84	c 14	N72-18411 *	US-PATENT-CLASS-356-180	c 35	N74-27860 *
US-PATENT-CLASS-350-310	c 23	N71-29123 *	US-PATENT-CLASS-353-54	c 34	N74-23066 *	US-PATENT-CLASS-356-186	c 35	N75-19613 *
US-PATENT-CLASS-350-310	c 23	N71-33229 *	US-PATENT-CLASS-353-61	c 34	N74-23066 *	US-PATENT-CLASS-356-188	c 35	N84-33766 *
US-PATENT-CLASS-350-310	c 23	N72-22673 *	US-PATENT-CLASS-354-118	c 74	N81-17886 *	US-PATENT-CLASS-356-189	c 35	N75-19613 *
US-PATENT-CLASS-350-310	c 74	N77-28933 *	US-PATENT-CLASS-354-217	c 35	N82-26628 *	US-PATENT-CLASS-356-189	c 35	N84-33766 *
US-PATENT-CLASS-350-311	c 74	N75-25706 *	US-PATENT-CLASS-354-234	c 33	N74-20861 *	US-PATENT-CLASS-356-18	c 14	N72-21409 *
US-PATENT-CLASS-350-312	c 16	N72-12440 *	US-PATENT-CLASS-354-234	c 70	N74-21300 *	US-PATENT-CLASS-356-197	c 37	N74-18123 *
US-PATENT-CLASS-350-312	c 74	N85-29750 *	US-PATENT-CLASS-354-289	c 35	N82-26628 *	US-PATENT-CLASS-356-199	c 36	N78-14380 *
US-PATENT-CLASS-350-315	c 74	N86-29650 *	US-PATENT-CLASS-354-479	c 74	N86-28732 *	US-PATENT-CLASS-356-1	c 36	N83-34304 *
US-PATENT-CLASS-350-316	c 27	N83-36220 *	US-PATENT-CLASS-354-62	c 52	N87-24874 *	US-PATENT-CLASS-356-1	c 36	N88-24958 *
US-PATENT-CLASS-350-318	c 74	N86-29650 *	US-PATENT-CLASS-354-77	c 74	N79-20856 *	US-PATENT-CLASS-356-1	c 09	N91-14356 *
US-PATENT-CLASS-350-319	c 74	N85-29750 *	US-PATENT-CLASS-355-18	c 14	N73-33361 *	US-PATENT-CLASS-356-201	c 75	N74-30156 *
US-PATENT-CLASS-350-319	c 74	N86-20125 *	US-PATENT-CLASS-356-103	c 14	N71-28994 *	US-PATENT-CLASS-356-201	c 35	N77-14411 *
US-PATENT-CLASS-350-319	c 09	N87-14355 *	US-PATENT-CLASS-356-103	c 36	N75-15028 *	US-PATENT-CLASS-356-202	c 26	N73-26751 *
US-PATENT-CLASS-350-320	c 74	N77-28933 *	US-PATENT-CLASS-356-103	c 74	N78-13874 *	US-PATENT-CLASS-356-203	c 14	N71-26788 *
US-PATENT-CLASS-350-320	c 44	N77-32583 *	US-PATENT-CLASS-356-104	c 16	N71-24074 *	US-PATENT-CLASS-356-204	c 35	N77-14411 *
US-PATENT-CLASS-350-320	c 73	N78-32848 *	US-PATENT-CLASS-356-104	c 74	N78-13874 *	US-PATENT-CLASS-356-204	c 74	N78-17867 *
US-PATENT-CLASS-350-320	c 44	N79-14529 *	US-PATENT-CLASS-356-106LR	c 36	N75-19653 *	US-PATENT-CLASS-356-207	c 45	N76-17656 *
US-PATENT-CLASS-350-320	c 74	N85-29749 *	US-PATENT-CLASS-356-106R	c 72	N74-19310 *	US-PATENT-CLASS-356-208	c 74	N78-33913 *
US-PATENT-CLASS-350-320	c 35	N91-13694 *	US-PATENT-CLASS-356-106R	c 36	N76-14447 *	US-PATENT-CLASS-356-209	c 23	N71-16341 *
US-PATENT-CLASS-350-321	c 74	N85-29750 *	US-PATENT-CLASS-356-106R	c 35	N77-10493 *	US-PATENT-CLASS-356-209	c 14	N71-28993 *
US-PATENT-CLASS-350-331-R	c 74	N89-14078 *	US-PATENT-CLASS-356-106R	c 47	N77-10753 *	US-PATENT-CLASS-356-209	c 14	N72-17323 *
US-PATENT-CLASS-350-335	c 74	N86-21348 *	US-PATENT-CLASS-356-106S	c 23	N73-13661 *	US-PATENT-CLASS-356-209	c 35	N76-31490 *
US-PATENT-CLASS-350-337	c 74	N89-14078 *	US-PATENT-CLASS-356-106S	c 35	N76-31490 *	US-PATENT-CLASS-356-210	c 74	N79-11865 *
US-PATENT-CLASS-350-342	c 76	N85-33826 *	US-PATENT-CLASS-356-106S	c 35	N78-18391 *	US-PATENT-CLASS-356-212	c 35	N77-31465 *
US-PATENT-CLASS-350-342	c 74	N89-14078 *	US-PATENT-CLASS-356-106S	c 35	N74-23040 *	US-PATENT-CLASS-356-213	c 39	N81-25400 *
US-PATENT-CLASS-350-353	c 74	N83-19597 *	US-PATENT-CLASS-356-106	c 14	N71-17627 *	US-PATENT-CLASS-356-216	c 74	N74-15095 *
US-PATENT-CLASS-350-354	c 32	N86-20647 *	US-PATENT-CLASS-356-106	c 14	N71-17655 *	US-PATENT-CLASS-356-216	c 35	N80-18359 *
US-PATENT-CLASS-350-354	c 74	N89-14077 *	US-PATENT-CLASS-356-106	c 14	N71-27215 *	US-PATENT-CLASS-356-216	c 39	N81-25400 *
US-PATENT-CLASS-350-354	c 35	N91-13694 *	US-PATENT-CLASS-356-106	c 14	N73-12446 *	US-PATENT-CLASS-356-216	c 35	N84-22931 *
US-PATENT-CLASS-350-356	c 74	N90-22383 *	US-PATENT-CLASS-356-106	c 35	N74-15146 *	US-PATENT-CLASS-356-222	c 03	N72-20033 *
US-PATENT-CLASS-350-358	c 36	N82-29589 *	US-PATENT-CLASS-356-107	c 16	N71-24170 *	US-PATENT-CLASS-356-222	c 47	N83-32232 *
US-PATENT-CLASS-350-359	c 36	N80-16321 *	US-PATENT-CLASS-356-108	c 26	N73-26751 *	US-PATENT-CLASS-356-234	c 39	N81-25400 *
US-PATENT-CLASS-350-35	c 14	N72-22441 *	US-PATENT-CLASS-356-108	c 16	N73-30476 *	US-PATENT-CLASS-356-234	c 35	N84-22931 *
US-PATENT-CLASS-350-36	c 14	N72-22441 *	US-PATENT-CLASS-356-109	c 16	N73-30476 *	US-PATENT-CLASS-356-236	c 74	N77-21941 *
US-PATENT-CLASS-350-370	c 35	N81-33448 *	US-PATENT-CLASS-356-110	c 14	N73-25463 *	US-PATENT-CLASS-356-236	c 74	N86-26190 *
US-PATENT-CLASS-350-443	c 74	N84-23248 *	US-PATENT-CLASS-356-110	c 35	N78-18391 *	US-PATENT-CLASS-356-237	c 74	N77-10899 *
US-PATENT-CLASS-350-445	c 74	N83-36898 *	US-PATENT-CLASS-356-112	c 72	N74-19310 *	US-PATENT-CLASS-356-237	c 38	N78-17396 *
US-PATENT-CLASS-350-448	c 74	N86-20125 *	US-PATENT-CLASS-356-113	c 14	N72-17323 *	US-PATENT-CLASS-356-237	c 38	N78-17396 *
US-PATENT-CLASS-350-453	c 36	N82-32712 *	US-PATENT-CLASS-356-113	c 35	N74-23040 *	US-PATENT-CLASS-356-237	c 35	N79-28527 *
US-PATENT-CLASS-350-486	c 74	N83-13978 *	US-PATENT-CLASS-356-114	c 14	N73-12446 *	US-PATENT-CLASS-356-239	c 74	N77-10899 *

US-PATENT-CLASS-356-241	c 14	N72-32452 *	US-PATENT-CLASS-356-4	c 07	N73-26119 *	US-PATENT-CLASS-357-30	c 35	N90-17118 *
US-PATENT-CLASS-356-243	c 36	N80-16321 *	US-PATENT-CLASS-356-4	c 36	N74-15145 *	US-PATENT-CLASS-357-30	c 35	N90-21358 *
US-PATENT-CLASS-356-244	c 14	N72-17323 *	US-PATENT-CLASS-356-4	c 35	N75-15014 *	US-PATENT-CLASS-357-30	c 33	N91-14551 *
US-PATENT-CLASS-356-244	c 35	N76-31490 *	US-PATENT-CLASS-356-4	c 36	N83-34304 *	US-PATENT-CLASS-357-30	c 35	N91-14588 *
US-PATENT-CLASS-356-244	c 35	N80-28687 *	US-PATENT-CLASS-356-4	c 36	N88-24958 *	US-PATENT-CLASS-357-32	c 35	N84-33765 *
US-PATENT-CLASS-356-244	c 74	N86-26190 *	US-PATENT-CLASS-356-51	c 06	N72-31141 *	US-PATENT-CLASS-357-32	c 33	N91-14551 *
US-PATENT-CLASS-356-246	c 35	N74-27860 *	US-PATENT-CLASS-356-51	c 35	N75-30502 *	US-PATENT-CLASS-357-35	c 33	N87-23879 *
US-PATENT-CLASS-356-246	c 74	N78-17867 *	US-PATENT-CLASS-356-51	c 35	N83-21311 *	US-PATENT-CLASS-357-40	c 36	N85-30305 *
US-PATENT-CLASS-356-246	c 74	N87-14971 *	US-PATENT-CLASS-356-51	c 35	N84-34705 *	US-PATENT-CLASS-357-41	c 33	N79-12321 *
US-PATENT-CLASS-356-248	c 14	N72-22444 *	US-PATENT-CLASS-356-51	c 36	N87-28006 *	US-PATENT-CLASS-357-42	c 76	N75-25730 *
US-PATENT-CLASS-356-256	c 36	N87-28006 *	US-PATENT-CLASS-356-5	c 07	N73-26119 *	US-PATENT-CLASS-357-45	c 33	N79-12321 *
US-PATENT-CLASS-356-28.5	c 32	N80-24510 *	US-PATENT-CLASS-356-5	c 36	N74-15145 *	US-PATENT-CLASS-357-45	c 44	N79-26475 *
US-PATENT-CLASS-356-28.5	c 36	N81-24422 *	US-PATENT-CLASS-356-5	c 36	N75-15028 *	US-PATENT-CLASS-357-46	c 36	N85-30305 *
US-PATENT-CLASS-356-28.5	c 36	N82-32712 *	US-PATENT-CLASS-356-5	c 32	N82-23376 *	US-PATENT-CLASS-357-4	c 33	N78-13320 *
US-PATENT-CLASS-356-28.5	c 35	N86-32697 *	US-PATENT-CLASS-356-5	c 74	N85-34629 *	US-PATENT-CLASS-357-4	c 76	N85-30922 *
US-PATENT-CLASS-356-28.5	c 35	N87-14669 *	US-PATENT-CLASS-356-5	c 74	N86-32266 *	US-PATENT-CLASS-357-4	c 35	N90-17118 *
US-PATENT-CLASS-356-28.5	c 36	N87-17026 *	US-PATENT-CLASS-356-5	c 32	N87-14559 *	US-PATENT-CLASS-357-4	c 35	N90-21358 *
US-PATENT-CLASS-356-28.5	c 36	N88-14350 *	US-PATENT-CLASS-356-5	c 35	N91-15512 *	US-PATENT-CLASS-357-50	c 76	N85-30922 *
US-PATENT-CLASS-356-28.5	c 33	N89-14384 *	US-PATENT-CLASS-356-71	c 66	N78-19888 *	US-PATENT-CLASS-357-52	c 76	N75-25730 *
US-PATENT-CLASS-356-28.5	c 33	N89-14385 *	US-PATENT-CLASS-356-72	c 14	N71-23268 *	US-PATENT-CLASS-357-52	c 44	N80-29835 *
US-PATENT-CLASS-356-28.5	c 36	N90-25340 *	US-PATENT-CLASS-356-72	c 33	N73-27796 *	US-PATENT-CLASS-357-52	c 76	N78-13313 *
US-PATENT-CLASS-356-28	c 21	N71-19121 *	US-PATENT-CLASS-356-72	c 38	N78-32447 *	US-PATENT-CLASS-357-54	c 76	N75-25730 *
US-PATENT-CLASS-356-28	c 16	N71-24828 *	US-PATENT-CLASS-356-72	c 74	N80-33210 *	US-PATENT-CLASS-357-55	c 33	N79-12321 *
US-PATENT-CLASS-356-28	c 72	N74-19310 *	US-PATENT-CLASS-356-72	c 35	N86-32697 *	US-PATENT-CLASS-357-55	c 33	N81-26360 *
US-PATENT-CLASS-356-28	c 36	N75-15028 *	US-PATENT-CLASS-356-73.1	c 76	N90-24150 *	US-PATENT-CLASS-357-55	c 33	N90-20282 *
US-PATENT-CLASS-356-28	c 35	N75-16783 *	US-PATENT-CLASS-356-73	c 75	N74-30156 *	US-PATENT-CLASS-357-56	c 33	N88-14271 *
US-PATENT-CLASS-356-28	c 36	N76-14447 *	US-PATENT-CLASS-356-73	c 38	N78-32447 *	US-PATENT-CLASS-357-58	c 33	N86-19516 *
US-PATENT-CLASS-356-28	c 36	N77-25501 *	US-PATENT-CLASS-356-73	c 35	N84-33766 *	US-PATENT-CLASS-357-58	c 35	N90-21358 *
US-PATENT-CLASS-356-28	c 74	N78-17866 *	US-PATENT-CLASS-356-73	c 09	N86-32447 *	US-PATENT-CLASS-357-58	c 33	N91-14551 *
US-PATENT-CLASS-356-28	c 35	N79-18296 *	US-PATENT-CLASS-356-73	c 35	N86-32697 *	US-PATENT-CLASS-357-59	c 44	N76-28635 *
US-PATENT-CLASS-356-28	c 36	N80-16321 *	US-PATENT-CLASS-356-73	c 76	N90-24150 *	US-PATENT-CLASS-357-59	c 44	N78-24609 *
US-PATENT-CLASS-356-28	c 36	N87-17026 *	US-PATENT-CLASS-356-74	c 30	N71-15990 *	US-PATENT-CLASS-357-59	c 44	N81-19558 *
US-PATENT-CLASS-356-28	c 36	N90-25340 *	US-PATENT-CLASS-356-74	c 35	N84-33766 *	US-PATENT-CLASS-357-59	c 33	N86-19516 *
US-PATENT-CLASS-356-300	c 43	N79-17288 *	US-PATENT-CLASS-356-76	c 23	N71-26206 *	US-PATENT-CLASS-357-5	c 33	N75-31332 *
US-PATENT-CLASS-356-301	c 35	N87-14669 *	US-PATENT-CLASS-356-76	c 14	N71-29041 *	US-PATENT-CLASS-357-5	c 33	N78-13320 *
US-PATENT-CLASS-356-311	c 35	N86-25753 *	US-PATENT-CLASS-356-83	c 35	N75-19613 *	US-PATENT-CLASS-357-60	c 33	N81-26360 *
US-PATENT-CLASS-356-318	c 35	N86-25753 *	US-PATENT-CLASS-356-85	c 37	N74-18123 *	US-PATENT-CLASS-357-61	c 33	N88-14271 *
US-PATENT-CLASS-356-323	c 74	N85-23396 *	US-PATENT-CLASS-356-85	c 75	N74-30156 *	US-PATENT-CLASS-357-61	c 35	N90-17118 *
US-PATENT-CLASS-356-328	c 35	N80-26635 *	US-PATENT-CLASS-356-87	c 75	N74-30156 *	US-PATENT-CLASS-357-63	c 33	N76-31409 *
US-PATENT-CLASS-356-32	c 14	N72-11364 *	US-PATENT-CLASS-356-96	c 35	N75-19613 *	US-PATENT-CLASS-357-63	c 44	N81-19558 *
US-PATENT-CLASS-356-32	c 32	N73-20740 *	US-PATENT-CLASS-356-97	c 35	N77-14411 *	US-PATENT-CLASS-357-65	c 44	N82-26777 *
US-PATENT-CLASS-356-32	c 39	N81-25400 *	US-PATENT-CLASS-357-12	c 33	N85-21492 *	US-PATENT-CLASS-357-65	c 44	N78-25527 *
US-PATENT-CLASS-356-330	c 74	N85-23396 *	US-PATENT-CLASS-357-13	c 35	N90-17118 *	US-PATENT-CLASS-357-65	c 44	N79-11467 *
US-PATENT-CLASS-356-331	c 74	N85-23396 *	US-PATENT-CLASS-357-15	c 44	N78-13526 *	US-PATENT-CLASS-357-65	c 44	N79-31752 *
US-PATENT-CLASS-356-334	c 74	N80-21140 *	US-PATENT-CLASS-357-15	c 44	N79-11467 *	US-PATENT-CLASS-357-65	c 33	N88-14271 *
US-PATENT-CLASS-356-345	c 74	N81-17888 *	US-PATENT-CLASS-357-15	c 44	N81-29525 *	US-PATENT-CLASS-357-67	c 44	N78-25527 *
US-PATENT-CLASS-356-345	c 74	N81-29963 *	US-PATENT-CLASS-357-15	c 76	N86-20150 *	US-PATENT-CLASS-357-67	c 44	N79-11467 *
US-PATENT-CLASS-356-345	c 36	N84-14509 *	US-PATENT-CLASS-357-15	c 33	N91-14551 *	US-PATENT-CLASS-357-68	c 44	N79-31752 *
US-PATENT-CLASS-356-345	c 74	N86-21348 *	US-PATENT-CLASS-357-16	c 44	N78-13526 *	US-PATENT-CLASS-357-68	c 33	N90-20282 *
US-PATENT-CLASS-356-346	c 35	N80-20563 *	US-PATENT-CLASS-357-16	c 44	N79-11467 *	US-PATENT-CLASS-357-72	c 33	N88-23941 *
US-PATENT-CLASS-356-346	c 74	N81-29963 *	US-PATENT-CLASS-357-17	c 36	N85-30305 *	US-PATENT-CLASS-357-74	c 33	N78-13320 *
US-PATENT-CLASS-356-347	c 35	N84-22929 *	US-PATENT-CLASS-357-22	c 33	N79-11314 *	US-PATENT-CLASS-357-74	c 37	N79-28549 *
US-PATENT-CLASS-356-347	c 35	N89-26202 *	US-PATENT-CLASS-357-22	c 33	N79-12321 *	US-PATENT-CLASS-357-74	c 33	N88-23941 *
US-PATENT-CLASS-356-349	c 36	N82-16396 *	US-PATENT-CLASS-357-22	c 33	N90-20282 *	US-PATENT-CLASS-357-76	c 33	N90-20282 *
US-PATENT-CLASS-356-350	c 35	N81-33448 *	US-PATENT-CLASS-357-23.12	c 76	N87-13313 *	US-PATENT-CLASS-357-79	c 37	N79-28549 *
US-PATENT-CLASS-356-350	c 74	N87-23259 *	US-PATENT-CLASS-357-23.1	c 76	N87-13313 *	US-PATENT-CLASS-357-7	c 33	N75-31331 *
US-PATENT-CLASS-356-351	c 35	N81-33448 *	US-PATENT-CLASS-357-23.6	c 33	N86-19516 *	US-PATENT-CLASS-357-81	c 37	N79-28549 *
US-PATENT-CLASS-356-351	c 35	N85-30282 *	US-PATENT-CLASS-357-231	c 33	N88-14271 *	US-PATENT-CLASS-357-81	c 33	N88-23941 *
US-PATENT-CLASS-356-352	c 74	N81-17888 *	US-PATENT-CLASS-357-23	c 76	N75-25730 *	US-PATENT-CLASS-357-81	c 33	N90-20282 *
US-PATENT-CLASS-356-353	c 74	N83-32577 *	US-PATENT-CLASS-357-23	c 33	N79-12321 *	US-PATENT-CLASS-357-82	c 37	N79-28549 *
US-PATENT-CLASS-356-356	c 36	N81-24422 *	US-PATENT-CLASS-357-23	c 33	N81-26360 *	US-PATENT-CLASS-357-83	c 37	N79-28549 *
US-PATENT-CLASS-356-357	c 74	N83-21949 *	US-PATENT-CLASS-357-24	c 33	N75-31331 *	US-PATENT-CLASS-357-90	c 35	N90-21358 *
US-PATENT-CLASS-356-358	c 74	N81-17888 *	US-PATENT-CLASS-357-24	c 33	N88-14271 *	US-PATENT-CLASS-357-91	c 76	N75-25730 *
US-PATENT-CLASS-356-358	c 36	N81-24422 *	US-PATENT-CLASS-357-27	c 35	N91-14588 *	US-PATENT-CLASS-357-91	c 33	N78-27326 *
US-PATENT-CLASS-356-358	c 35	N85-30282 *	US-PATENT-CLASS-357-29	c 76	N75-25730 *	US-PATENT-CLASS-357-91	c 44	N80-29835 *
US-PATENT-CLASS-356-361	c 35	N89-26202 *	US-PATENT-CLASS-357-29	c 35	N84-33765 *	US-PATENT-CLASS-357-91	c 33	N81-26360 *
US-PATENT-CLASS-356-363	c 74	N83-32577 *	US-PATENT-CLASS-357-29	c 76	N87-13313 *	US-PATENT-CLASS-357-91	c 44	N86-32875 *
US-PATENT-CLASS-356-369	c 35	N80-28687 *	US-PATENT-CLASS-357-29	c 35	N90-21358 *	US-PATENT-CLASS-358-101	c 37	N86-21850 *
US-PATENT-CLASS-356-36	c 23	N71-16365 *	US-PATENT-CLASS-357-29	c 33	N91-14551 *	US-PATENT-CLASS-358-104	c 09	N78-18083 *
US-PATENT-CLASS-356-376	c 36	N88-24958 *	US-PATENT-CLASS-357-30	c 44	N76-28635 *	US-PATENT-CLASS-358-104	c 74	N79-13855 *
US-PATENT-CLASS-356-37	c 45	N76-21742 *	US-PATENT-CLASS-357-30	c 44	N78-13526 *	US-PATENT-CLASS-358-104	c 36	N83-34304 *
US-PATENT-CLASS-356-386	c 36	N82-16396 *	US-PATENT-CLASS-357-30	c 44	N78-24609 *	US-PATENT-CLASS-358-105	c 39	N83-20280 *
US-PATENT-CLASS-356-389	c 33	N87-14594 *	US-PATENT-CLASS-357-30	c 44	N78-25527 *	US-PATENT-CLASS-358-105	c 74	N86-21348 *
US-PATENT-CLASS-356-394	c 33	N83-18996 *	US-PATENT-CLASS-357-30	c 44	N79-11467 *	US-PATENT-CLASS-358-105	c 17	N87-25348 *
US-PATENT-CLASS-356-4.5	c 74	N86-21348 *	US-PATENT-CLASS-357-30	c 44	N79-14528 *	US-PATENT-CLASS-358-106	c 39	N78-16387 *
US-PATENT-CLASS-356-4.5	c 74	N86-32266 *	US-PATENT-CLASS-357-30	c 44	N79-31752 *	US-PATENT-CLASS-358-107	c 35	N79-18296 *
US-PATENT-CLASS-356-402	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 44	N80-29835 *	US-PATENT-CLASS-358-107	c 36	N88-24958 *
US-PATENT-CLASS-356-404	c 35	N79-28527 *	US-PATENT-CLASS-357-30	c 44	N81-19558 *	US-PATENT-CLASS-358-109	c 32	N79-20297 *
US-PATENT-CLASS-356-406	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N81-29525 *	US-PATENT-CLASS-358-109	c 33	N81-33403 *
US-PATENT-CLASS-356-407	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N82-26777 *	US-PATENT-CLASS-358-109	c 43	N82-13465 *
US-PATENT-CLASS-356-407	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N82-29709 *	US-PATENT-CLASS-358-109	c 36	N83-34304 *
US-PATENT-CLASS-356-409	c 36	N87-28006 *	US-PATENT-CLASS-357-30	c 44	N82-31764 *	US-PATENT-CLASS-358-109	c 32	N85-29117 *
US-PATENT-CLASS-356-416	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N83-13579 *	US-PATENT-CLASS-358-109	c 35	N90-22769 *
US-PATENT-CLASS-356-416	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N83-32177 *	US-PATENT-CLASS-358-111	c 52	N79-10724 *
US-PATENT-CLASS-356-419	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 35	N84-33765 *	US-PATENT-CLASS-358-113	c 35	N90-22770 *
US-PATENT-CLASS-356-432	c 74	N81-17887 *	US-PATENT-CLASS-357-30	c 33	N85-21492 *	US-PATENT-CLASS-358-125	c 74	N84-23247 *
US-PATENT-CLASS-356-432	c 25	N81-25159 *	US-PATENT-CLASS-357-30	c 44	N85-21768 *	US-PATENT-CLASS-358-125	c 74	N86-21348 *
US-PATENT-CLASS-356-434	c 35	N84-34705 *	US-PATENT-CLASS-357-30	c 44	N85-30475 *	US-PATENT-CLASS-358-133	c 32	N83-34304 *
US-PATENT-CLASS-356-437	c 25	N81-14015 *	US-PATENT-CLASS-357-30	c 33	N86-19516 *	US-PATENT-CLASS-358-133	c 32	N85-29117 *
US-PATENT-CLASS-356-43	c 74	N74-15095 *	US-PATENT-CLASS-357-30	c 76	N86-20150 *	US-PATENT-CLASS-358-133	c 17	N87-25348 *
US-PATENT-CLASS-356-43	c 75	N74-30156 *	US-PATENT-CLASS-357-30	c 44	N86-32875 *	US-PATENT-CLASS-358-138	c 32	N77-24328 *
US-PATENT-CLASS-356-43	c 36	N85-21639 *	US-PATENT-CLASS-357-30	c 76	N87-13313 *	US-PATENT-CLASS-358-138	c 17	N87-25348 *
US-PATENT-CLASS-356-43	c 36	N90-17132 *	US-PATENT-CLASS-357-30	c 33	N87-23879 *	US-PATENT-CLASS-358-142	c 74	N78-14889 *
US-PATENT-CLASS-356-446	c 74	N86-26190 *	US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-161	c 32	N85-21427 *
US-PATENT-CLASS-356-45	c 36	N85-21639 *	US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-168	c 32	N86-20647 *
US-PATENT-CLASS-356-4	c 14	N72-17326 *	US-PATENT-CLASS-357-30	c 76	N88-14836 *	US-PATENT-CLASS-358-174	c 32	N85-21427 *

US-PATENT-CLASS-358-213	c 33	N81-33403 *	US-PATENT-CLASS-364-200	c 60	N81-27814 *	US-PATENT-CLASS-367-102	c 32	N82-18443 *
US-PATENT-CLASS-358-213	c 33	N82-24416 *	US-PATENT-CLASS-364-200	c 60	N83-25378 *	US-PATENT-CLASS-367-181	c 33	N82-26572 *
US-PATENT-CLASS-358-213	c 74	N84-23247 *	US-PATENT-CLASS-364-200	c 60	N83-32342 *	US-PATENT-CLASS-367-189	c 35	N84-22933 *
US-PATENT-CLASS-358-217	c 32	N85-21427 *	US-PATENT-CLASS-364-200	c 32	N85-21428 *	US-PATENT-CLASS-367-191	c 71	N88-24241 *
US-PATENT-CLASS-358-219	c 32	N85-21427 *	US-PATENT-CLASS-364-200	c 60	N85-21992 *	US-PATENT-CLASS-367-26	c 39	N80-10507 *
US-PATENT-CLASS-358-222	c 74	N86-28732 *	US-PATENT-CLASS-364-200	c 60	N88-29310 *	US-PATENT-CLASS-367-27	c 31	N80-32584 *
US-PATENT-CLASS-358-225	c 74	N78-17865 *	US-PATENT-CLASS-364-228.3	c 62	N91-14769 *	US-PATENT-CLASS-367-36	c 31	N80-32584 *
US-PATENT-CLASS-358-36	c 32	N75-21485 *	US-PATENT-CLASS-364-229.4	c 60	N90-21527 *	US-PATENT-CLASS-367-57	c 31	N80-32584 *
US-PATENT-CLASS-358-41	c 74	N78-17865 *	US-PATENT-CLASS-364-231.9	c 62	N91-14769 *	US-PATENT-CLASS-367-88	c 32	N82-18443 *
US-PATENT-CLASS-358-44	c 74	N77-18893 *	US-PATENT-CLASS-364-267.9	c 60	N90-21527 *	US-PATENT-CLASS-367-88	c 32	N83-31918 *
US-PATENT-CLASS-358-55	c 74	N78-17865 *	US-PATENT-CLASS-364-280	c 62	N91-14769 *	US-PATENT-CLASS-367-88	c 43	N86-19711 *
US-PATENT-CLASS-358-81	c 32	N79-20297 *	US-PATENT-CLASS-364-281	c 62	N91-14769 *	US-PATENT-CLASS-367-908	c 35	N89-14407 *
US-PATENT-CLASS-358-88	c 74	N86-21348 *	US-PATENT-CLASS-364-300	c 52	N79-12694 *	US-PATENT-CLASS-367-95	c 32	N82-23376 *
US-PATENT-CLASS-358-88	c 32	N89-28676 *	US-PATENT-CLASS-364-300	c 62	N91-14769 *	US-PATENT-CLASS-367-99	c 32	N87-14559 *
US-PATENT-CLASS-358-91	c 32	N89-28676 *	US-PATENT-CLASS-364-400	c 33	N85-29142 *	US-PATENT-CLASS-368-184	c 33	N83-36357 *
US-PATENT-CLASS-358-92	c 32	N89-28676 *	US-PATENT-CLASS-364-413	c 39	N83-20280 *	US-PATENT-CLASS-368-200	c 33	N85-36357 *
US-PATENT-CLASS-358-93	c 35	N90-22770 *	US-PATENT-CLASS-364-415	c 52	N79-12694 *	US-PATENT-CLASS-368-201	c 33	N83-36357 *
US-PATENT-CLASS-358-96	c 52	N79-10724 *	US-PATENT-CLASS-364-415	c 35	N84-12445 *	US-PATENT-CLASS-368-47	c 33	N81-14221 *
US-PATENT-CLASS-36-119	c 54	N78-17675 *	US-PATENT-CLASS-364-417	c 52	N79-10724 *	US-PATENT-CLASS-37N	c 27	N81-15104 *
US-PATENT-CLASS-36-92	c 54	N78-17675 *	US-PATENT-CLASS-364-427	c 09	N90-20096 *	US-PATENT-CLASS-370-100	c 60	N82-16747 *
US-PATENT-CLASS-360-101	c 35	N76-16391 *	US-PATENT-CLASS-364-431	c 07	N81-19115 *	US-PATENT-CLASS-370-16	c 62	N90-19776 *
US-PATENT-CLASS-360-10	c 35	N76-16391 *	US-PATENT-CLASS-364-433	c 06	N86-27280 *	US-PATENT-CLASS-370-58	c 60	N81-27814 *
US-PATENT-CLASS-360-25	c 35	N77-17426 *	US-PATENT-CLASS-364-433	c 09	N91-14356 *	US-PATENT-CLASS-370-67	c 33	N82-29538 *
US-PATENT-CLASS-360-26	c 33	N76-18353 *	US-PATENT-CLASS-364-434	c 08	N79-23097 *	US-PATENT-CLASS-370-85.4	c 62	N91-14772 *
US-PATENT-CLASS-360-31	c 35	N77-17426 *	US-PATENT-CLASS-364-434	c 08	N81-24106 *	US-PATENT-CLASS-370-85.6	c 62	N91-14772 *
US-PATENT-CLASS-360-35	c 35	N76-16391 *	US-PATENT-CLASS-364-435	c 06	N86-27280 *	US-PATENT-CLASS-370-85.9	c 62	N91-14772 *
US-PATENT-CLASS-360-51	c 33	N76-18353 *	US-PATENT-CLASS-364-452	c 04	N84-27713 *	US-PATENT-CLASS-370-85	c 33	N81-14221 *
US-PATENT-CLASS-360-9	c 35	N76-16391 *	US-PATENT-CLASS-364-453	c 18	N81-29152 *	US-PATENT-CLASS-370-94.3	c 62	N91-14772 *
US-PATENT-CLASS-361-100	c 33	N83-34190 *	US-PATENT-CLASS-364-453	c 33	N85-29142 *	US-PATENT-CLASS-371-041	c 17	N90-21061 *
US-PATENT-CLASS-361-141	c 33	N82-11357 *	US-PATENT-CLASS-364-458	c 32	N79-14267 *	US-PATENT-CLASS-371-043	c 17	N90-21061 *
US-PATENT-CLASS-361-170	c 33	N79-28415 *	US-PATENT-CLASS-364-481	c 33	N90-19492 *	US-PATENT-CLASS-371-11.3	c 60	N90-21527 *
US-PATENT-CLASS-361-218	c 03	N88-14083 *	US-PATENT-CLASS-364-482	c 33	N90-19492 *	US-PATENT-CLASS-371-20	c 33	N81-26359 *
US-PATENT-CLASS-361-222	c 03	N88-14083 *	US-PATENT-CLASS-364-484	c 33	N89-14385 *	US-PATENT-CLASS-371-25	c 33	N81-26359 *
US-PATENT-CLASS-361-226	c 28	N82-18401 *	US-PATENT-CLASS-364-487	c 17	N91-14371 *	US-PATENT-CLASS-371-37.4	c 17	N90-21061 *
US-PATENT-CLASS-361-230	c 28	N82-18401 *	US-PATENT-CLASS-364-500	c 25	N88-29002 *	US-PATENT-CLASS-371-37	c 60	N87-21591 *
US-PATENT-CLASS-361-283	c 33	N82-26572 *	US-PATENT-CLASS-364-510	c 34	N81-26402 *	US-PATENT-CLASS-371-38.1	c 17	N90-21061 *
US-PATENT-CLASS-361-334	c 35	N81-26431 *	US-PATENT-CLASS-364-513	c 61	N91-14741 *	US-PATENT-CLASS-371-40	c 60	N87-21591 *
US-PATENT-CLASS-361-383	c 31	N90-21215 *	US-PATENT-CLASS-364-514	c 33	N81-33405 *	US-PATENT-CLASS-371-43	c 33	N87-25531 *
US-PATENT-CLASS-361-384	c 31	N90-21215 *	US-PATENT-CLASS-364-522	c 39	N83-20280 *	US-PATENT-CLASS-371-43	c 32	N91-14523 *
US-PATENT-CLASS-361-385	c 31	N90-21215 *	US-PATENT-CLASS-364-550	c 17	N91-14371 *	US-PATENT-CLASS-371-63	c 17	N87-16863 *
US-PATENT-CLASS-361-395	c 32	N78-24391 *	US-PATENT-CLASS-364-556	c 36	N85-29264 *	US-PATENT-CLASS-371-68	c 60	N82-29013 *
US-PATENT-CLASS-361-56	c 33	N81-27397 *	US-PATENT-CLASS-364-557	c 35	N84-14491 *	US-PATENT-CLASS-371-6	c 32	N83-13323 *
US-PATENT-CLASS-361-65	c 33	N90-20320 *	US-PATENT-CLASS-364-557	c 25	N88-29002 *	US-PATENT-CLASS-371-8	c 62	N90-19776 *
US-PATENT-CLASS-361-79	c 33	N90-20320 *	US-PATENT-CLASS-364-558	c 35	N84-14491 *	US-PATENT-CLASS-372-100	c 36	N84-14509 *
US-PATENT-CLASS-361-91	c 33	N81-27397 *	US-PATENT-CLASS-364-558	c 07	N84-22559 *	US-PATENT-CLASS-372-103	c 36	N84-28065 *
US-PATENT-CLASS-362-11	c 74	N81-17886 *	US-PATENT-CLASS-364-559	c 39	N83-20280 *	US-PATENT-CLASS-372-103	c 36	N87-23960 *
US-PATENT-CLASS-362-241	c 74	N81-17886 *	US-PATENT-CLASS-364-560	c 43	N79-26439 *	US-PATENT-CLASS-372-108	c 36	N84-14509 *
US-PATENT-CLASS-362-269	c 17	N78-17140 *	US-PATENT-CLASS-364-561	c 36	N88-24958 *	US-PATENT-CLASS-372-18	c 36	N87-23960 *
US-PATENT-CLASS-363-100	c 33	N85-29147 *	US-PATENT-CLASS-364-566	c 18	N81-29152 *	US-PATENT-CLASS-372-19	c 36	N91-17360 *
US-PATENT-CLASS-363-101	c 33	N78-32341 *	US-PATENT-CLASS-364-571	c 34	N81-26402 *	US-PATENT-CLASS-372-20	c 36	N84-22943 *
US-PATENT-CLASS-363-103	c 33	N81-19392 *	US-PATENT-CLASS-364-571	c 35	N84-14491 *	US-PATENT-CLASS-372-20	c 36	N87-25567 *
US-PATENT-CLASS-363-132	c 33	N82-18494 *	US-PATENT-CLASS-364-571	c 33	N85-34333 *	US-PATENT-CLASS-372-25	c 33	N83-34189 *
US-PATENT-CLASS-363-134	c 33	N79-24257 *	US-PATENT-CLASS-364-571	c 25	N88-29002 *	US-PATENT-CLASS-372-28	c 36	N84-22943 *
US-PATENT-CLASS-363-147	c 44	N81-12542 *	US-PATENT-CLASS-364-578	c 33	N88-34333 *	US-PATENT-CLASS-372-32	c 36	N84-22943 *
US-PATENT-CLASS-363-16	c 33	N78-32341 *	US-PATENT-CLASS-364-578	c 35	N90-23713 *	US-PATENT-CLASS-372-32	c 33	N85-34333 *
US-PATENT-CLASS-363-17	c 33	N82-18494 *	US-PATENT-CLASS-364-578	c 61	N91-14741 *	US-PATENT-CLASS-372-38	c 36	N85-30305 *
US-PATENT-CLASS-363-19	c 33	N85-29147 *	US-PATENT-CLASS-364-604	c 32	N79-14267 *	US-PATENT-CLASS-372-39	c 36	N91-17360 *
US-PATENT-CLASS-363-21	c 33	N81-19392 *	US-PATENT-CLASS-364-713	c 32	N79-20297 *	US-PATENT-CLASS-372-41	c 36	N91-15528 *
US-PATENT-CLASS-363-21	c 33	N81-19393 *	US-PATENT-CLASS-364-717	c 32	N82-31583 *	US-PATENT-CLASS-372-43	c 36	N87-23960 *
US-PATENT-CLASS-363-22	c 33	N84-33663 *	US-PATENT-CLASS-364-717	c 33	N90-23636 *	US-PATENT-CLASS-372-46	c 36	N85-30305 *
US-PATENT-CLASS-363-23	c 33	N85-29147 *	US-PATENT-CLASS-364-723	c 60	N85-33701 *	US-PATENT-CLASS-372-4	c 36	N84-28065 *
US-PATENT-CLASS-363-24	c 33	N81-33404 *	US-PATENT-CLASS-364-724.01	c 33	N89-28713 *	US-PATENT-CLASS-372-4	c 36	N87-25567 *
US-PATENT-CLASS-363-25	c 33	N84-16453 *	US-PATENT-CLASS-364-724.05	c 33	N89-28713 *	US-PATENT-CLASS-372-50	c 36	N85-30305 *
US-PATENT-CLASS-363-27	c 44	N81-12542 *	US-PATENT-CLASS-364-728	c 32	N79-14267 *	US-PATENT-CLASS-372-55	c 36	N84-16542 *
US-PATENT-CLASS-363-36	c 33	N81-19393 *	US-PATENT-CLASS-364-728	c 60	N86-21154 *	US-PATENT-CLASS-372-56	c 36	N82-28616 *
US-PATENT-CLASS-363-40	c 33	N81-19393 *	US-PATENT-CLASS-364-728	c 60	N86-24169 *	US-PATENT-CLASS-372-56	c 36	N83-10417 *
US-PATENT-CLASS-363-47	c 33	N81-19393 *	US-PATENT-CLASS-364-735	c 33	N89-28713 *	US-PATENT-CLASS-372-58	c 36	N82-28616 *
US-PATENT-CLASS-363-49	c 33	N84-33663 *	US-PATENT-CLASS-364-746.1	c 33	N90-23636 *	US-PATENT-CLASS-372-59	c 36	N83-10417 *
US-PATENT-CLASS-363-53	c 33	N77-30365 *	US-PATENT-CLASS-364-754	c 33	N89-28713 *	US-PATENT-CLASS-372-59	c 25	N90-20154 *
US-PATENT-CLASS-363-54	c 33	N83-34190 *	US-PATENT-CLASS-364-757	c 60	N88-24169 *	US-PATENT-CLASS-372-60	c 36	N83-10417 *
US-PATENT-CLASS-363-56	c 33	N79-24254 *	US-PATENT-CLASS-364-822	c 32	N83-18975 *	US-PATENT-CLASS-372-61	c 74	N87-14971 *
US-PATENT-CLASS-363-56	c 33	N81-14220 *	US-PATENT-CLASS-364-822	c 74	N86-21348 *	US-PATENT-CLASS-372-66	c 36	N91-17360 *
US-PATENT-CLASS-363-56	c 33	N81-33404 *	US-PATENT-CLASS-364-825	c 33	N82-24417 *	US-PATENT-CLASS-372-68	c 36	N87-23961 *
US-PATENT-CLASS-363-57	c 33	N78-10377 *	US-PATENT-CLASS-364-853	c 60	N85-33701 *	US-PATENT-CLASS-372-69	c 36	N87-25567 *
US-PATENT-CLASS-363-60	c 33	N78-32341 *	US-PATENT-CLASS-364-861	c 32	N83-18975 *	US-PATENT-CLASS-372-70	c 36	N91-17360 *
US-PATENT-CLASS-363-60	c 44	N81-12542 *	US-PATENT-CLASS-364-900	c 52	N79-12694 *	US-PATENT-CLASS-372-71	c 36	N84-28065 *
US-PATENT-CLASS-363-61	c 33	N82-18494 *	US-PATENT-CLASS-364-900	c 60	N79-20751 *	US-PATENT-CLASS-372-71	c 36	N91-15528 *
US-PATENT-CLASS-363-61	c 33	N85-29147 *	US-PATENT-CLASS-364-900	c 60	N81-27814 *	US-PATENT-CLASS-372-74	c 35	N84-12444 *
US-PATENT-CLASS-363-65	c 33	N84-16453 *	US-PATENT-CLASS-364-900	c 60	N83-32342 *	US-PATENT-CLASS-372-75	c 36	N91-15528 *
US-PATENT-CLASS-363-67	c 33	N84-16453 *	US-PATENT-CLASS-364-900	c 60	N84-28491 *	US-PATENT-CLASS-372-79	c 36	N84-16542 *
US-PATENT-CLASS-363-70	c 33	N77-30365 *	US-PATENT-CLASS-364-900	c 60	N84-28492 *	US-PATENT-CLASS-372-79	c 36	N86-29204 *
US-PATENT-CLASS-363-71	c 33	N79-24254 *	US-PATENT-CLASS-364-900	c 33	N89-14384 *	US-PATENT-CLASS-372-81	c 36	N87-23961 *
US-PATENT-CLASS-363-71	c 33	N79-24257 *	US-PATENT-CLASS-364-900	c 35	N90-23713 *	US-PATENT-CLASS-372-82	c 36	N82-28616 *
US-PATENT-CLASS-363-71	c 33	N81-14220 *	US-PATENT-CLASS-364-924.4	c 35	N90-23713 *	US-PATENT-CLASS-372-93	c 36	N84-14509 *
US-PATENT-CLASS-363-71	c 33	N84-16453 *	US-PATENT-CLASS-364-925.1	c 35	N90-23713 *	US-PATENT-CLASS-372-93	c 36	N84-28065 *
US-PATENT-CLASS-363-71	c 33	N85-29147 *	US-PATENT-CLASS-364-933.8	c 35	N90-23713 *	US-PATENT-CLASS-372-94	c 36	N84-14509 *
US-PATENT-CLASS-363-78	c 33	N81-14220 *	US-PATENT-CLASS-364-934	c 35	N90-23713 *	US-PATENT-CLASS-372-95	c 36	N84-28065 *
US-PATENT-CLASS-363-87	c 33	N83-10345 *	US-PATENT-CLASS-364-940.67	c 60	N90-21527 *	US-PATENT-CLASS-372-98	c 36	N84-14509 *
US-PATENT-CLASS-363-89	c 33	N78-10377 *	US-PATENT-CLASS-364-942.51	c 60	N90-21527 *	US-PATENT-CLASS-372-99	c 36	N87-25567 *
US-PATENT-CLASS-363-95	c 33	N79-24257 *	US-PATENT-CLASS-364-944	c 60	N90-21527 *	US-PATENT-CLASS-373-10	c 35	N87-23944 *
US-PATENT-CLASS-363-97	c 33	N79-24254 *	US-PATENT-CLASS-364-975.5	c 60	N90-21527 *	US-PATENT-CLASS-373-15	c 35	N87-23944 *
US-PATENT-CLASS-364-106	c 09	N88-28939 *	US-PATENT-CLASS-365-120	c 33	N81-29342 *	US-PATENT-CLASS-374-115	c 35	N86-19580 *
US-PATENT-CLASS-364-120	c 07	N81-19115 *	US-PATENT-CLASS-365-768	c 32	N86-27513 *	US-PATENT-CLASS-374-117	c 52	N85-30618 *
US-PATENT-CLASS-364-120	c 52	N79-12694 *	US-PATENT-CLASS-366-106	c 71	N84-28568 *	US-PATENT-CLASS-374-120	c 35	N86-19580 *
US-PATENT-CLASS-364-131	c 60	N89-26400 *	US-PATENT-CLASS-366-114	c 71	N83-35781 *	US-PATENT-CLASS-374-122	c 06	N83-10040 *
US-PATENT-CLASS-364-200	c 62	N81-24779 *	US-PATENT-CLASS-367-100	c 32	N82-18443 *	US-PATENT-CLASS-374-122	c 43	N85-21723 *

US-PATENT-CLASS-374-122	c 32	N87-21206 *	US-PATENT-CLASS-4-110	c 05	N72-22093 *	US-PATENT-CLASS-409-131	c 31	N83-27058 *
US-PATENT-CLASS-374-123	c 06	N83-10040 *	US-PATENT-CLASS-4-120	c 54	N74-20725 *	US-PATENT-CLASS-41R	c 27	N81-15104 *
US-PATENT-CLASS-374-124	c 36	N90-17132 *	US-PATENT-CLASS-4-144.3	c 52	N81-24711 *	US-PATENT-CLASS-410-156	c 37	N85-34401 *
US-PATENT-CLASS-374-126	c 36	N90-17132 *	US-PATENT-CLASS-4-144.3	c 52	N81-28740 *	US-PATENT-CLASS-410-79	c 18	N85-29991 *
US-PATENT-CLASS-374-130	c 36	N90-17132 *	US-PATENT-CLASS-4-209R	c 54	N91-14723 *	US-PATENT-CLASS-410-90	c 18	N85-29991 *
US-PATENT-CLASS-374-137	c 36	N85-21639 *	US-PATENT-CLASS-4-316	c 54	N91-14723 *	US-PATENT-CLASS-411-103	c 37	N85-30335 *
US-PATENT-CLASS-374-160	c 52	N85-30618 *	US-PATENT-CLASS-4-316	c 54	N91-14724 *	US-PATENT-CLASS-411-108	c 37	N85-30335 *
US-PATENT-CLASS-374-162R	c 74	N82-30071 *	US-PATENT-CLASS-4-482	c 54	N91-14723 *	US-PATENT-CLASS-411-166	c 37	N87-22976 *
US-PATENT-CLASS-374-162	c 35	N90-22770 *	US-PATENT-CLASS-4-482	c 54	N91-14724 *	US-PATENT-CLASS-411-353	c 37	N83-19091 *
US-PATENT-CLASS-374-163	c 35	N86-19580 *	US-PATENT-CLASS-4-498	c 44	N84-34792 *	US-PATENT-CLASS-411-368	c 37	N85-29285 *
US-PATENT-CLASS-374-17	c 35	N83-29650 *	US-PATENT-CLASS-4-661	c 54	N91-14724 *	US-PATENT-CLASS-411-368	c 37	N87-22976 *
US-PATENT-CLASS-374-183	c 33	N86-32624 *	US-PATENT-CLASS-4-99	c 05	N72-22093 *	US-PATENT-CLASS-411-378	c 37	N85-29285 *
US-PATENT-CLASS-374-1	c 35	N84-28019 *	US-PATENT-CLASS-40-28	c 12	N71-18603 *	US-PATENT-CLASS-411-424	c 37	N87-22976 *
US-PATENT-CLASS-374-208	c 37	N85-21651 *	US-PATENT-CLASS-403-102	c 37	N85-30336 *	US-PATENT-CLASS-411-426	c 37	N85-29285 *
US-PATENT-CLASS-374-210	c 37	N85-21651 *	US-PATENT-CLASS-403-102	c 18	N87-14373 *	US-PATENT-CLASS-411-427	c 37	N87-22976 *
US-PATENT-CLASS-374-36	c 25	N88-29002 *	US-PATENT-CLASS-403-105	c 37	N79-14382 *	US-PATENT-CLASS-411-501	c 37	N85-29285 *
US-PATENT-CLASS-374-46	c 34	N83-34221 *	US-PATENT-CLASS-403-113	c 37	N86-19605 *	US-PATENT-CLASS-411-517	c 37	N83-19091 *
US-PATENT-CLASS-374-46	c 25	N86-19413 *	US-PATENT-CLASS-403-113	c 37	N91-17387 *	US-PATENT-CLASS-411-531	c 37	N85-29285 *
US-PATENT-CLASS-374-51	c 39	N83-32081 *	US-PATENT-CLASS-403-119	c 18	N87-14373 *	US-PATENT-CLASS-411-531	c 37	N87-22976 *
US-PATENT-CLASS-374-8	c 25	N86-19413 *	US-PATENT-CLASS-403-120	c 37	N86-19605 *	US-PATENT-CLASS-414-1	c 37	N80-14398 *
US-PATENT-CLASS-374-9	c 32	N87-21206 *	US-PATENT-CLASS-403-143	c 18	N85-29991 *	US-PATENT-CLASS-414-1	c 37	N81-14320 *
US-PATENT-CLASS-375-101	c 32	N87-25511 *	US-PATENT-CLASS-403-146	c 18	N87-14373 *	US-PATENT-CLASS-414-1	c 54	N86-28618 *
US-PATENT-CLASS-375-102	c 32	N87-25511 *	US-PATENT-CLASS-403-146	c 37	N91-15544 *	US-PATENT-CLASS-414-217	c 37	N85-29286 *
US-PATENT-CLASS-375-104	c 35	N81-19427 *	US-PATENT-CLASS-403-147	c 37	N91-15544 *	US-PATENT-CLASS-414-217	c 31	N91-15423 *
US-PATENT-CLASS-375-106	c 60	N82-16747 *	US-PATENT-CLASS-403-156	c 37	N91-15544 *	US-PATENT-CLASS-414-220	c 31	N91-15423 *
US-PATENT-CLASS-375-106	c 32	N82-31583 *	US-PATENT-CLASS-403-15	c 37	N85-30334 *	US-PATENT-CLASS-414-222	c 37	N82-32731 *
US-PATENT-CLASS-375-107	c 32	N81-14186 *	US-PATENT-CLASS-403-163	c 18	N87-14373 *	US-PATENT-CLASS-414-226	c 37	N82-32731 *
US-PATENT-CLASS-375-110	c 32	N87-21207 *	US-PATENT-CLASS-403-164	c 54	N86-29507 *	US-PATENT-CLASS-414-288	c 85	N85-34722 *
US-PATENT-CLASS-375-114	c 60	N82-16747 *	US-PATENT-CLASS-403-16	c 37	N85-30334 *	US-PATENT-CLASS-414-328	c 85	N85-34722 *
US-PATENT-CLASS-375-115	c 32	N81-15179 *	US-PATENT-CLASS-403-171	c 31	N81-25258 *	US-PATENT-CLASS-414-373	c 85	N85-34722 *
US-PATENT-CLASS-375-116	c 60	N82-16747 *	US-PATENT-CLASS-403-171	c 31	N86-19479 *	US-PATENT-CLASS-414-4	c 37	N79-28551 *
US-PATENT-CLASS-375-120	c 32	N84-27952 *	US-PATENT-CLASS-403-171	c 37	N88-29180 *	US-PATENT-CLASS-414-4	c 54	N81-26718 *
US-PATENT-CLASS-375-120	c 32	N87-21207 *	US-PATENT-CLASS-403-171	c 37	N91-14614 *	US-PATENT-CLASS-414-4	c 37	N86-20789 *
US-PATENT-CLASS-375-120	c 33	N87-25531 *	US-PATENT-CLASS-403-179	c 27	N76-14264 *	US-PATENT-CLASS-414-5	c 54	N86-28618 *
US-PATENT-CLASS-375-1	c 32	N81-15179 *	US-PATENT-CLASS-403-217	c 37	N82-32732 *	US-PATENT-CLASS-414-689	c 18	N89-12621 *
US-PATENT-CLASS-375-1	c 35	N81-19427 *	US-PATENT-CLASS-403-217	c 37	N88-29180 *	US-PATENT-CLASS-414-6	c 54	N79-24652 *
US-PATENT-CLASS-375-1	c 33	N81-33405 *	US-PATENT-CLASS-403-273	c 37	N77-23482 *	US-PATENT-CLASS-414-718	c 37	N86-20789 *
US-PATENT-CLASS-375-23	c 32	N87-21207 *	US-PATENT-CLASS-403-282	c 26	N83-10170 *	US-PATENT-CLASS-414-718	c 18	N89-12621 *
US-PATENT-CLASS-375-34	c 35	N81-19427 *	US-PATENT-CLASS-403-28	c 27	N76-14264 *	US-PATENT-CLASS-414-729	c 37	N91-14616 *
US-PATENT-CLASS-375-39	c 32	N87-25511 *	US-PATENT-CLASS-403-28	c 37	N85-29285 *	US-PATENT-CLASS-414-730	c 37	N81-27519 *
US-PATENT-CLASS-375-53	c 32	N91-14523 *	US-PATENT-CLASS-403-291	c 37	N91-17387 *	US-PATENT-CLASS-414-730	c 37	N86-19603 *
US-PATENT-CLASS-375-54	c 33	N81-15192 *	US-PATENT-CLASS-403-30	c 18	N89-28554 *	US-PATENT-CLASS-414-735	c 54	N81-26718 *
US-PATENT-CLASS-375-54	c 32	N87-25511 *	US-PATENT-CLASS-403-312	c 37	N86-27630 *	US-PATENT-CLASS-414-735	c 18	N88-23828 *
US-PATENT-CLASS-375-54	c 33	N87-25531 *	US-PATENT-CLASS-403-315	c 37	N82-24494 *	US-PATENT-CLASS-414-735	c 18	N89-12621 *
US-PATENT-CLASS-375-57	c 32	N91-14523 *	US-PATENT-CLASS-403-317	c 37	N82-32732 *	US-PATENT-CLASS-414-739	c 37	N82-32731 *
US-PATENT-CLASS-375-58	c 32	N81-15179 *	US-PATENT-CLASS-403-317	c 37	N85-21649 *	US-PATENT-CLASS-414-744A	c 54	N81-26718 *
US-PATENT-CLASS-375-59	c 33	N87-25531 *	US-PATENT-CLASS-403-317	c 37	N91-14610 *	US-PATENT-CLASS-414-750	c 18	N88-23828 *
US-PATENT-CLASS-375-67	c 33	N81-15192 *	US-PATENT-CLASS-403-322	c 18	N84-22605 *	US-PATENT-CLASS-414-753	c 37	N86-20789 *
US-PATENT-CLASS-375-76	c 33	N87-25531 *	US-PATENT-CLASS-403-322	c 37	N85-30334 *	US-PATENT-CLASS-414-786	c 85	N85-34722 *
US-PATENT-CLASS-375-77	c 32	N84-27952 *	US-PATENT-CLASS-403-322	c 37	N85-30336 *	US-PATENT-CLASS-414-7	c 54	N86-28618 *
US-PATENT-CLASS-375-80	c 04	N91-14321 *	US-PATENT-CLASS-403-322	c 37	N90-17154 *	US-PATENT-CLASS-414-7	c 54	N86-28620 *
US-PATENT-CLASS-375-81	c 32	N84-27952 *	US-PATENT-CLASS-403-322	c 37	N91-14614 *	US-PATENT-CLASS-414-7	c 37	N91-14616 *
US-PATENT-CLASS-375-88	c 17	N87-16863 *	US-PATENT-CLASS-403-325	c 37	N90-17154 *	US-PATENT-CLASS-414-8	c 54	N86-28618 *
US-PATENT-CLASS-375-94	c 04	N91-14321 *	US-PATENT-CLASS-403-327	c 37	N91-14610 *	US-PATENT-CLASS-415-DIG.8	c 44	N82-24639 *
US-PATENT-CLASS-375-99	c 35	N81-19427 *	US-PATENT-CLASS-403-327	c 37	N91-14614 *	US-PATENT-CLASS-415-DIG.8	c 44	N84-23018 *
US-PATENT-CLASS-376-127	c 72	N87-21661 *	US-PATENT-CLASS-403-328	c 18	N86-20469 *	US-PATENT-CLASS-415-101	c 44	N80-21828 *
US-PATENT-CLASS-376-159	c 25	N85-21279 *	US-PATENT-CLASS-403-328	c 37	N90-17154 *	US-PATENT-CLASS-415-115	c 07	N79-10057 *
US-PATENT-CLASS-377-111	c 60	N90-21525 *	US-PATENT-CLASS-403-331	c 37	N82-32732 *	US-PATENT-CLASS-415-115	c 34	N87-27144 *
US-PATENT-CLASS-377-114	c 60	N90-21525 *	US-PATENT-CLASS-403-331	c 37	N91-14610 *	US-PATENT-CLASS-415-115	c 07	N84-33410 *
US-PATENT-CLASS-377-116	c 60	N90-21525 *	US-PATENT-CLASS-403-331	c 37	N91-14614 *	US-PATENT-CLASS-415-115	c 34	N85-33433 *
US-PATENT-CLASS-377-123	c 60	N90-21525 *	US-PATENT-CLASS-403-334	c 37	N91-15544 *	US-PATENT-CLASS-415-116	c 07	N79-10057 *
US-PATENT-CLASS-377-126	c 60	N90-21525 *	US-PATENT-CLASS-403-340	c 37	N82-32732 *	US-PATENT-CLASS-415-118	c 35	N83-35338 *
US-PATENT-CLASS-377-39	c 33	N89-14385 *	US-PATENT-CLASS-403-341	c 18	N87-27713 *	US-PATENT-CLASS-415-136	c 37	N88-23978 *
US-PATENT-CLASS-377-69	c 60	N90-21525 *	US-PATENT-CLASS-403-348	c 37	N85-30336 *	US-PATENT-CLASS-415-143	c 34	N79-20335 *
US-PATENT-CLASS-377-79	c 60	N90-21525 *	US-PATENT-CLASS-403-381	c 37	N91-14610 *	US-PATENT-CLASS-415-145	c 07	N77-28118 *
US-PATENT-CLASS-378-104	c 33	N85-29147 *	US-PATENT-CLASS-403-385	c 37	N91-14617 *	US-PATENT-CLASS-415-145	c 07	N82-32366 *
US-PATENT-CLASS-378-112	c 33	N85-29147 *	US-PATENT-CLASS-403-388	c 37	N86-27630 *	US-PATENT-CLASS-415-170.1	c 37	N91-14608 *
US-PATENT-CLASS-378-2	c 34	N83-19015 *	US-PATENT-CLASS-403-391	c 37	N91-14617 *	US-PATENT-CLASS-415-170-R	c 37	N88-23978 *
US-PATENT-CLASS-378-2	c 74	N84-11920 *	US-PATENT-CLASS-403-408.1	c 37	N86-27630 *	US-PATENT-CLASS-415-174.5	c 37	N91-14608 *
US-PATENT-CLASS-378-43	c 34	N83-19015 *	US-PATENT-CLASS-403-408	c 37	N85-29285 *	US-PATENT-CLASS-415-174	c 37	N79-18318 *
US-PATENT-CLASS-378-43	c 74	N86-20124 *	US-PATENT-CLASS-403-4	c 18	N89-28554 *	US-PATENT-CLASS-415-174	c 37	N80-26658 *
US-PATENT-CLASS-378-51	c 38	N90-23756 *	US-PATENT-CLASS-403-51	c 18	N89-28553 *	US-PATENT-CLASS-415-174	c 37	N82-19540 *
US-PATENT-CLASS-378-58	c 74	N86-20126 *	US-PATENT-CLASS-403-56	c 18	N85-29991 *	US-PATENT-CLASS-415-174	c 27	N82-29453 *
US-PATENT-CLASS-378-58	c 38	N90-23756 *	US-PATENT-CLASS-403-57	c 37	N91-17387 *	US-PATENT-CLASS-415-174	c 18	N83-20996 *
US-PATENT-CLASS-378-59	c 74	N86-20126 *	US-PATENT-CLASS-403-64	c 31	N86-19479 *	US-PATENT-CLASS-415-174	c 37	N84-22957 *
US-PATENT-CLASS-378-85	c 74	N86-20124 *	US-PATENT-CLASS-403-76	c 18	N85-29991 *	US-PATENT-CLASS-415-174	c 37	N86-20788 *
US-PATENT-CLASS-380-25	c 60	N90-25583 *	US-PATENT-CLASS-403-85	c 18	N87-14373 *	US-PATENT-CLASS-415-175	c 07	N83-31603 *
US-PATENT-CLASS-380-45	c 60	N90-25583 *	US-PATENT-CLASS-403-90	c 18	N85-29991 *	US-PATENT-CLASS-415-178	c 07	N82-32366 *
US-PATENT-CLASS-380-49	c 60	N90-25583 *	US-PATENT-CLASS-405-188	c 18	N90-20126 *	US-PATENT-CLASS-415-178	c 07	N83-31603 *
US-PATENT-CLASS-381-183	c 54	N89-29953 *	US-PATENT-CLASS-405-188	c 18	N91-14374 *	US-PATENT-CLASS-415-180	c 07	N77-23106 *
US-PATENT-CLASS-381-187	c 54	N89-29953 *	US-PATENT-CLASS-405-229	c 44	N79-24432 *	US-PATENT-CLASS-415-180	c 37	N78-10467 *
US-PATENT-CLASS-382-31	c 74	N89-14078 *	US-PATENT-CLASS-405-263	c 44	N79-24432 *	US-PATENT-CLASS-415-181	c 07	N74-28226 *
US-PATENT-CLASS-382-41	c 60	N89-26400 *	US-PATENT-CLASS-406-155	c 37	N84-16561 *	US-PATENT-CLASS-415-181	c 07	N74-31270 *
US-PATENT-CLASS-382-42	c 74	N86-21348 *	US-PATENT-CLASS-407-117	c 37	N81-14319 *	US-PATENT-CLASS-415-196	c 37	N80-26658 *
US-PATENT-CLASS-382-42	c 60	N88-24169 *	US-PATENT-CLASS-407-85	c 37	N81-14319 *	US-PATENT-CLASS-415-196	c 37	N82-19540 *
US-PATENT-CLASS-382-42	c 60	N89-26400 *	US-PATENT-CLASS-408-1-R	c 31	N87-25491 *	US-PATENT-CLASS-415-197	c 18	N83-20996 *
US-PATENT-CLASS-382-49	c 60	N89-26400 *	US-PATENT-CLASS-408-1R	c 37	N81-14319 *	US-PATENT-CLASS-415-199	c 05	N80-14107 *
US-PATENT-CLASS-384-101	c 37	N85-33490 *	US-PATENT-CLASS-408-1R	c 31	N83-27058 *	US-PATENT-CLASS-415-1	c 34	N79-20335 *
US-PATENT-CLASS-384-103	c 37	N86-19606 *	US-PATENT-CLASS-408-111	c 37	N74-25968 *	US-PATENT-CLASS-415-1	c 07	N83-31603 *
US-PATENT-CLASS-384-106	c 37	N86-19606 *	US-PATENT-CLASS-408-112	c 37	N75-25186 *	US-PATENT-CLASS-415-1	c 37	N85-29282 *
US-PATENT-CLASS-384-124	c 27	N83-34043 *	US-PATENT-CLASS-408-137	c 15	N71-33518 *	US-PATENT-CLASS-415-2R	c 44	N82-24639 *
US-PATENT-CLASS-384-99	c 37	N85-33490 *	US-PATENT-CLASS-408-186	c 37	N75-25186 *	US-PATENT-CLASS-415-2R	c 44	N84-23018 *
US-PATENT-CLASS-388-821	c 33	N90-21951 *	US-PATENT-CLASS-408-193	c 37	N75-25186 *	US-PATENT-CLASS-415-200	c 07	N79-14096 *
US-PATENT-CLASS-39-25.35	c 33	N86-20671 *	US-PATENT-CLASS-408-195	c 37	N75-25186 *	US-PATENT-CLASS-415-200	c 37	N79-18318 *
US-PATENT-CLASS-4-DIG.9	c 54	N91-14724 *	US-PATENT-CLASS-408-61	c 31	N83-27058 *	US-PATENT-CLASS-415-201	c 07	N79-14096 *
US-PATENT-CLASS-4-10	c 54	N74-20725 *	US-PATENT-CLASS-408-80	c 37	N74-25968 *	US-PATENT-CLASS-415-229	c 37	N91-14608 *

US-PATENT-CLASS-415-2	c 44	N80-21828 *	US-PATENT-CLASS-417-488	c 31	N85-21404 *	US-PATENT-CLASS-423-303	c 44	N84-23019 *
US-PATENT-CLASS-415-47	c 07	N83-31603 *	US-PATENT-CLASS-417-50	c 15	N71-27084 *	US-PATENT-CLASS-423-33-5	c 25	N79-28253 *
US-PATENT-CLASS-415-68	c 37	N85-29282 *	US-PATENT-CLASS-417-52	c 37	N74-27904 *	US-PATENT-CLASS-423-338	c 76	N87-29360 *
US-PATENT-CLASS-415-9	c 44	N79-14527 *	US-PATENT-CLASS-417-53	c 31	N90-23587 *	US-PATENT-CLASS-423-339	c 76	N87-29360 *
US-PATENT-CLASS-416-104	c 05	N77-17029 *	US-PATENT-CLASS-417-572	c 31	N90-23587 *	US-PATENT-CLASS-423-345	c 76	N76-25049 *
US-PATENT-CLASS-416-114	c 05	N81-19087 *	US-PATENT-CLASS-417-88	c 44	N78-32539 *	US-PATENT-CLASS-423-345	c 76	N79-23798 *
US-PATENT-CLASS-416-114	c 08	N87-23631 *	US-PATENT-CLASS-418-113	c 37	N82-16408 *	US-PATENT-CLASS-423-346	c 76	N76-25049 *
US-PATENT-CLASS-416-115	c 02	N72-11018 *	US-PATENT-CLASS-418-142	c 37	N82-16408 *	US-PATENT-CLASS-423-348	c 26	N80-14229 *
US-PATENT-CLASS-416-117	c 37	N84-12493 *	US-PATENT-CLASS-419-24	c 24	N90-23493 *	US-PATENT-CLASS-423-350	c 37	N80-10494 *
US-PATENT-CLASS-416-121	c 02	N72-11018 *	US-PATENT-CLASS-419-24	c 24	N91-17145 *	US-PATENT-CLASS-423-350	c 31	N80-18231 *
US-PATENT-CLASS-416-127	c 02	N72-11018 *	US-PATENT-CLASS-419-36	c 24	N90-23493 *	US-PATENT-CLASS-423-352	c 36	N76-18427 *
US-PATENT-CLASS-416-130	c 02	N72-11018 *	US-PATENT-CLASS-419-36	c 24	N91-17145 *	US-PATENT-CLASS-423-407	c 24	N76-14203 *
US-PATENT-CLASS-416-132B	c 37	N84-12493 *	US-PATENT-CLASS-419-37	c 24	N90-23493 *	US-PATENT-CLASS-423-414	c 24	N84-22695 *
US-PATENT-CLASS-416-132R	c 05	N79-17847 *	US-PATENT-CLASS-419-37	c 24	N91-17145 *	US-PATENT-CLASS-423-414	c 31	N85-20153 *
US-PATENT-CLASS-416-135	c 07	N77-32148 *	US-PATENT-CLASS-419-48	c 24	N91-17145 *	US-PATENT-CLASS-423-417	c 26	N80-14229 *
US-PATENT-CLASS-416-135	c 37	N78-10468 *	US-PATENT-CLASS-419-49	c 24	N91-17145 *	US-PATENT-CLASS-423-419P	c 25	N83-33977 *
US-PATENT-CLASS-416-138	c 05	N77-17029 *	US-PATENT-CLASS-419-8	c 24	N90-23493 *	US-PATENT-CLASS-423-439	c 24	N91-15320 *
US-PATENT-CLASS-416-138	c 05	N79-17847 *	US-PATENT-CLASS-419-8	c 24	N91-17145 *	US-PATENT-CLASS-423-445	c 24	N84-22695 *
US-PATENT-CLASS-416-141	c 05	N77-17029 *	US-PATENT-CLASS-42-1.13	c 03	N91-15142 *	US-PATENT-CLASS-423-445	c 31	N85-20153 *
US-PATENT-CLASS-416-141	c 37	N78-10468 *	US-PATENT-CLASS-42-1F	c 11	N72-22247 *	US-PATENT-CLASS-423-445	c 24	N85-21267 *
US-PATENT-CLASS-416-144	c 35	N78-24515 *	US-PATENT-CLASS-42-101	c 44	N86-25874 *	US-PATENT-CLASS-423-446	c 15	N73-19457 *
US-PATENT-CLASS-416-145	c 05	N85-29947 *	US-PATENT-CLASS-42-215	c 44	N76-29704 *	US-PATENT-CLASS-423-446	c 24	N84-22695 *
US-PATENT-CLASS-416-149	c 02	N72-11018 *	US-PATENT-CLASS-420-445	c 26	N82-31505 *	US-PATENT-CLASS-423-446	c 31	N85-20153 *
US-PATENT-CLASS-416-153	c 07	N77-14025 *	US-PATENT-CLASS-420-460	c 26	N87-14482 *	US-PATENT-CLASS-423-446	c 24	N85-21267 *
US-PATENT-CLASS-416-157B	c 07	N79-14095 *	US-PATENT-CLASS-420-529	c 26	N89-28621 *	US-PATENT-CLASS-423-447.2	c 24	N83-25789 *
US-PATENT-CLASS-416-158	c 08	N87-23631 *	US-PATENT-CLASS-420-533	c 26	N89-28621 *	US-PATENT-CLASS-423-447.6	c 24	N83-25789 *
US-PATENT-CLASS-416-160	c 07	N77-14025 *	US-PATENT-CLASS-420-54	c 26	N89-14303 *	US-PATENT-CLASS-423-447.7	c 24	N83-25789 *
US-PATENT-CLASS-416-160	c 07	N79-14095 *	US-PATENT-CLASS-420-551	c 26	N82-31505 *	US-PATENT-CLASS-423-448	c 24	N91-15320 *
US-PATENT-CLASS-416-162	c 07	N77-14025 *	US-PATENT-CLASS-420-588	c 26	N82-31505 *	US-PATENT-CLASS-423-449	c 24	N84-22695 *
US-PATENT-CLASS-416-162	c 07	N79-14095 *	US-PATENT-CLASS-420-62	c 26	N89-14303 *	US-PATENT-CLASS-423-449	c 31	N85-20153 *
US-PATENT-CLASS-416-165	c 07	N77-14025 *	US-PATENT-CLASS-420-79	c 26	N89-14303 *	US-PATENT-CLASS-423-449	c 24	N85-21267 *
US-PATENT-CLASS-416-167	c 07	N77-14025 *	US-PATENT-CLASS-420-81	c 26	N89-14303 *	US-PATENT-CLASS-423-460	c 24	N91-15320 *
US-PATENT-CLASS-416-167	c 07	N79-14095 *	US-PATENT-CLASS-422-103	c 35	N85-29213 *	US-PATENT-CLASS-423-489	c 24	N91-15320 *
US-PATENT-CLASS-416-190	c 07	N77-32148 *	US-PATENT-CLASS-422-109	c 54	N81-24724 *	US-PATENT-CLASS-423-539	c 25	N82-28368 *
US-PATENT-CLASS-416-193A	c 07	N77-32148 *	US-PATENT-CLASS-422-111	c 35	N90-22025 *	US-PATENT-CLASS-423-540	c 25	N82-28368 *
US-PATENT-CLASS-416-1	c 34	N83-27144 *	US-PATENT-CLASS-422-121	c 35	N84-17555 *	US-PATENT-CLASS-423-542	c 25	N82-28368 *
US-PATENT-CLASS-416-200	c 02	N72-11018 *	US-PATENT-CLASS-422-126	c 35	N90-22025 *	US-PATENT-CLASS-423-579	c 46	N74-13011 *
US-PATENT-CLASS-416-214A	c 07	N78-33101 *	US-PATENT-CLASS-422-129	c 37	N85-21652 *	US-PATENT-CLASS-423-579	c 25	N82-28368 *
US-PATENT-CLASS-416-220R	c 07	N77-27116 *	US-PATENT-CLASS-422-169	c 35	N84-17555 *	US-PATENT-CLASS-423-581	c 25	N79-10162 *
US-PATENT-CLASS-416-220R	c 37	N78-10468 *	US-PATENT-CLASS-422-178	c 35	N84-17555 *	US-PATENT-CLASS-423-582	c 26	N78-32229 *
US-PATENT-CLASS-416-221	c 07	N77-27116 *	US-PATENT-CLASS-422-186	c 25	N82-28368 *	US-PATENT-CLASS-423-583	c 26	N78-32229 *
US-PATENT-CLASS-416-223-R	c 02	N89-14224 *	US-PATENT-CLASS-422-186	c 35	N84-17555 *	US-PATENT-CLASS-423-600	c 25	N83-33977 *
US-PATENT-CLASS-416-223R	c 02	N84-11136 *	US-PATENT-CLASS-422-187	c 37	N80-10494 *	US-PATENT-CLASS-423-625	c 15	N73-19457 *
US-PATENT-CLASS-416-223R	c 02	N84-28732 *	US-PATENT-CLASS-422-198	c 25	N82-28368 *	US-PATENT-CLASS-423-625	c 26	N80-14229 *
US-PATENT-CLASS-416-223	c 07	N74-28226 *	US-PATENT-CLASS-422-199	c 37	N80-10494 *	US-PATENT-CLASS-423-644	c 36	N76-18427 *
US-PATENT-CLASS-416-224	c 24	N77-19170 *	US-PATENT-CLASS-422-200	c 44	N83-10501 *	US-PATENT-CLASS-423-648R	c 44	N77-22607 *
US-PATENT-CLASS-416-224	c 07	N84-22560 *	US-PATENT-CLASS-422-202	c 44	N83-10501 *	US-PATENT-CLASS-423-648R	c 28	N78-24365 *
US-PATENT-CLASS-416-228	c 05	N80-14107 *	US-PATENT-CLASS-422-208	c 37	N80-10494 *	US-PATENT-CLASS-423-648R	c 28	N80-20402 *
US-PATENT-CLASS-416-230	c 24	N77-19170 *	US-PATENT-CLASS-422-224	c 31	N80-18231 *	US-PATENT-CLASS-423-648R	c 25	N81-14103 *
US-PATENT-CLASS-416-233	c 07	N84-22560 *	US-PATENT-CLASS-422-224	c 44	N83-10501 *	US-PATENT-CLASS-423-649	c 25	N82-28368 *
US-PATENT-CLASS-416-237	c 07	N74-28226 *	US-PATENT-CLASS-422-235	c 37	N80-10494 *	US-PATENT-CLASS-423-650	c 25	N83-29324 *
US-PATENT-CLASS-416-238	c 05	N80-14107 *	US-PATENT-CLASS-422-242	c 37	N80-10494 *	US-PATENT-CLASS-423-650	c 44	N76-18642 *
US-PATENT-CLASS-416-23	c 05	N85-29947 *	US-PATENT-CLASS-422-245	c 76	N90-23242 *	US-PATENT-CLASS-423-650	c 44	N76-29704 *
US-PATENT-CLASS-416-241A	c 07	N77-32148 *	US-PATENT-CLASS-422-245	c 76	N90-24169 *	US-PATENT-CLASS-423-650	c 44	N77-10636 *
US-PATENT-CLASS-416-241R	c 26	N84-33555 *	US-PATENT-CLASS-422-246	c 76	N80-32244 *	US-PATENT-CLASS-423-650	c 28	N80-10374 *
US-PATENT-CLASS-416-242	c 02	N84-11136 *	US-PATENT-CLASS-422-246	c 33	N81-19389 *	US-PATENT-CLASS-423-655	c 28	N91-14495 *
US-PATENT-CLASS-416-242	c 02	N84-28732 *	US-PATENT-CLASS-422-246	c 76	N82-30105 *	US-PATENT-CLASS-423-658.5	c 28	N81-15119 *
US-PATENT-CLASS-416-244A	c 07	N78-33101 *	US-PATENT-CLASS-422-246	c 76	N84-35113 *	US-PATENT-CLASS-424-12	c 25	N79-14169 *
US-PATENT-CLASS-416-248	c 37	N78-10468 *	US-PATENT-CLASS-422-246	c 76	N88-24544 *	US-PATENT-CLASS-424-12	c 51	N80-16715 *
US-PATENT-CLASS-416-25	c 05	N75-12930 *	US-PATENT-CLASS-422-249	c 33	N81-19389 *	US-PATENT-CLASS-424-156	c 25	N83-33977 *
US-PATENT-CLASS-416-2	c 44	N79-14527 *	US-PATENT-CLASS-422-249	c 76	N84-35113 *	US-PATENT-CLASS-424-180	c 52	N75-15270 *
US-PATENT-CLASS-416-500	c 05	N81-19087 *	US-PATENT-CLASS-422-249	c 76	N90-20896 *	US-PATENT-CLASS-424-247	c 52	N81-29764 *
US-PATENT-CLASS-416-500	c 05	N85-29947 *	US-PATENT-CLASS-422-251	c 76	N88-14835 *	US-PATENT-CLASS-424-267	c 52	N81-29764 *
US-PATENT-CLASS-416-51	c 05	N79-17847 *	US-PATENT-CLASS-422-260	c 76	N88-14835 *	US-PATENT-CLASS-424-274	c 52	N81-14613 *
US-PATENT-CLASS-416-61	c 35	N78-24515 *	US-PATENT-CLASS-422-27	c 54	N81-24724 *	US-PATENT-CLASS-424-274	c 52	N81-29764 *
US-PATENT-CLASS-416-61	c 37	N79-14382 *	US-PATENT-CLASS-422-30	c 54	N81-24724 *	US-PATENT-CLASS-424-3	c 51	N77-27677 *
US-PATENT-CLASS-416-88	c 05	N79-17847 *	US-PATENT-CLASS-422-34	c 54	N81-24724 *	US-PATENT-CLASS-425-DIG.43	c 31	N75-13111 *
US-PATENT-CLASS-416-89	c 05	N79-17847 *	US-PATENT-CLASS-422-3	c 54	N81-24724 *	US-PATENT-CLASS-425-10	c 31	N83-35176 *
US-PATENT-CLASS-416-92	c 07	N84-22560 *	US-PATENT-CLASS-422-40	c 35	N82-11432 *	US-PATENT-CLASS-425-113	c 15	N73-13464 *
US-PATENT-CLASS-416-97A	c 34	N85-33433 *	US-PATENT-CLASS-422-41	c 52	N79-14749 *	US-PATENT-CLASS-425-128	c 31	N74-32920 *
US-PATENT-CLASS-416-97R	c 34	N83-27144 *	US-PATENT-CLASS-422-48	c 52	N79-14749 *	US-PATENT-CLASS-425-133	c 15	N73-13464 *
US-PATENT-CLASS-416-97R	c 07	N84-22560 *	US-PATENT-CLASS-422-50	c 76	N90-24169 *	US-PATENT-CLASS-425-176	c 15	N73-13464 *
US-PATENT-CLASS-416-9	c 37	N90-23742 *	US-PATENT-CLASS-422-52	c 51	N80-16714 *	US-PATENT-CLASS-425-288	c 31	N74-32917 *
US-PATENT-CLASS-417-138	c 35	N75-19611 *	US-PATENT-CLASS-422-52	c 51	N83-27569 *	US-PATENT-CLASS-425-35	c 31	N74-32917 *
US-PATENT-CLASS-417-141	c 44	N76-29701 *	US-PATENT-CLASS-422-52	c 35	N90-22025 *	US-PATENT-CLASS-425-378R	c 31	N81-15154 *
US-PATENT-CLASS-417-152	c 15	N72-22489 *	US-PATENT-CLASS-422-62	c 51	N80-27067 *	US-PATENT-CLASS-425-4-R	c 27	N88-23894 *
US-PATENT-CLASS-417-159	c 09	N84-27749 *	US-PATENT-CLASS-422-68	c 25	N86-19413 *	US-PATENT-CLASS-425-405R	c 31	N75-13111 *
US-PATENT-CLASS-417-15	c 37	N83-26078 *	US-PATENT-CLASS-422-78	c 25	N82-12166 *	US-PATENT-CLASS-425-415	c 31	N74-32920 *
US-PATENT-CLASS-417-207	c 44	N76-29701 *	US-PATENT-CLASS-422-80	c 35	N85-29213 *	US-PATENT-CLASS-425-425	c 31	N90-19425 *
US-PATENT-CLASS-417-209	c 34	N76-17317 *	US-PATENT-CLASS-422-86	c 35	N85-29213 *	US-PATENT-CLASS-425-435	c 31	N90-19425 *
US-PATENT-CLASS-417-209	c 44	N76-29701 *	US-PATENT-CLASS-422-98	c 35	N90-22025 *	US-PATENT-CLASS-425-438	c 31	N75-13111 *
US-PATENT-CLASS-417-225	c 35	N78-10428 *	US-PATENT-CLASS-422-9	c 45	N80-14579 *	US-PATENT-CLASS-425-468	c 31	N75-13111 *
US-PATENT-CLASS-417-328	c 37	N84-28081 *	US-PATENT-CLASS-423-DIG.10	c 24	N84-22695 *	US-PATENT-CLASS-425-5	c 34	N90-23700 *
US-PATENT-CLASS-417-36	c 35	N75-19611 *	US-PATENT-CLASS-423-DIG.10	c 31	N85-20153 *	US-PATENT-CLASS-425-6	c 31	N81-33319 *
US-PATENT-CLASS-417-379	c 44	N76-29701 *	US-PATENT-CLASS-423-131	c 28	N81-15119 *	US-PATENT-CLASS-425-6	c 27	N82-28442 *
US-PATENT-CLASS-417-383	c 37	N80-31790 *	US-PATENT-CLASS-423-149	c 26	N80-14229 *	US-PATENT-CLASS-425-6	c 31	N83-31896 *
US-PATENT-CLASS-417-391	c 15	N73-24513 *	US-PATENT-CLASS-423-1	c 28	N81-15119 *	US-PATENT-CLASS-425-6	c 31	N83-35176 *
US-PATENT-CLASS-417-392	c 37	N84-28081 *	US-PATENT-CLASS-423-231	c 25	N74-12813 *	US-PATENT-CLASS-425-6	c 71	N84-28568 *
US-PATENT-CLASS-417-395	c 35	N75-19611 *	US-PATENT-CLASS-423-235	c 25	N82-28368 *	US-PATENT-CLASS-425-6	c 26	N86-32551 *
US-PATENT-CLASS-417-399	c 44	N83-14693 *	US-PATENT-CLASS-423-242	c 45	N79-12584 *	US-PATENT-CLASS-425-6	c 34	N90-23700 *
US-PATENT-CLASS-417-417	c 44	N83-28574 *	US-PATENT-CLASS-423-249	c 25	N76-27383 *	US-PATENT-CLASS-425-73	c 31	N90-19425 *
US-PATENT-CLASS-417-417	c 31	N85-21404 *	US-PATENT-CLASS-423-276	c 23	N87-23698 *	US-PATENT-CLASS-425-75	c 31	N90-19425 *
US-PATENT-CLASS-417-462	c 37	N84-28081 *	US-PATENT-CLASS-423-284	c 23	N87-23698 *	US-PATENT-CLASS-425-77	c 15	N72-20446 *
US-PATENT-CLASS-417-470	c 35	N74-15126 *	US-PATENT-CLASS-423-293	c 26	N80-14229 *	US-PATENT-CLASS-425-7	c 31	N83-35176 *
US-PATENT-CLASS-417-471	c 35	N74-15126 *						
US-PATENT-CLASS-417-475	c 37	N86-32738 *						

US-PATENT-CLASS-425-804	c 34	N90-23700 *	US-PATENT-CLASS-427-34	c 27	N82-29453 *	US-PATENT-CLASS-427-44	c 27	N80-32516 *
US-PATENT-CLASS-427-113	c 44	N76-28635 *	US-PATENT-CLASS-427-34	c 27	N83-31855 *	US-PATENT-CLASS-427-47	c 44	N77-32583 *
US-PATENT-CLASS-427-113	c 44	N78-24609 *	US-PATENT-CLASS-427-34	c 31	N83-35177 *	US-PATENT-CLASS-427-47	c 26	N85-29005 *
US-PATENT-CLASS-427-113	c 44	N84-28205 *	US-PATENT-CLASS-427-34	c 37	N84-22957 *	US-PATENT-CLASS-427-4	c 51	N77-27677 *
US-PATENT-CLASS-427-115	c 25	N82-21268 *	US-PATENT-CLASS-427-34	c 26	N84-27855 *	US-PATENT-CLASS-427-53.1	c 36	N84-22944 *
US-PATENT-CLASS-427-115	c 26	N84-22734 *	US-PATENT-CLASS-427-350	c 24	N79-25142 *	US-PATENT-CLASS-427-53.1	c 37	N84-22957 *
US-PATENT-CLASS-427-115	c 44	N84-28205 *	US-PATENT-CLASS-427-352	c 27	N83-34039 *	US-PATENT-CLASS-427-531	c 44	N82-28780 *
US-PATENT-CLASS-427-123	c 44	N79-11472 *	US-PATENT-CLASS-427-355	c 24	N79-17916 *	US-PATENT-CLASS-427-57	c 71	N84-16940 *
US-PATENT-CLASS-427-124	c 37	N78-13436 *	US-PATENT-CLASS-427-372.2	c 27	N82-33520 *	US-PATENT-CLASS-427-58	c 33	N84-16456 *
US-PATENT-CLASS-427-125	c 26	N84-22734 *	US-PATENT-CLASS-427-372.2	c 44	N84-28205 *	US-PATENT-CLASS-427-6	c 71	N84-16940 *
US-PATENT-CLASS-427-125	c 44	N84-28205 *	US-PATENT-CLASS-427-372A	c 24	N79-25142 *	US-PATENT-CLASS-427-74	c 44	N82-28780 *
US-PATENT-CLASS-427-126.6	c 26	N84-22734 *	US-PATENT-CLASS-427-376.2	c 26	N85-35267 *	US-PATENT-CLASS-427-75	c 44	N78-25527 *
US-PATENT-CLASS-427-126	c 37	N78-13436 *	US-PATENT-CLASS-427-376.6	c 33	N84-16456 *	US-PATENT-CLASS-427-75	c 44	N79-11472 *
US-PATENT-CLASS-427-126	c 44	N79-11472 *	US-PATENT-CLASS-427-376.7	c 33	N84-16456 *	US-PATENT-CLASS-427-75	c 44	N79-11468 *
US-PATENT-CLASS-427-130	c 44	N77-32583 *	US-PATENT-CLASS-427-376A	c 27	N78-32260 *	US-PATENT-CLASS-427-75	c 33	N84-16456 *
US-PATENT-CLASS-427-140	c 27	N82-33520 *	US-PATENT-CLASS-427-376B	c 27	N78-32260 *	US-PATENT-CLASS-427-84	c 44	N79-11472 *
US-PATENT-CLASS-427-140	c 24	N83-13172 *	US-PATENT-CLASS-427-376B	c 24	N79-17916 *	US-PATENT-CLASS-427-85	c 44	N85-20530 *
US-PATENT-CLASS-427-160	c 34	N77-18382 *	US-PATENT-CLASS-427-376C	c 24	N79-17916 *	US-PATENT-CLASS-427-86	c 44	N78-28635 *
US-PATENT-CLASS-427-160	c 44	N78-19599 *	US-PATENT-CLASS-427-376	c 27	N76-22377 *	US-PATENT-CLASS-427-86	c 44	N78-24609 *
US-PATENT-CLASS-427-162	c 12	N76-15189 *	US-PATENT-CLASS-427-376	c 27	N76-23426 *	US-PATENT-CLASS-427-88	c 44	N79-31752 *
US-PATENT-CLASS-427-162	c 27	N86-31727 *	US-PATENT-CLASS-427-379	c 27	N76-22377 *	US-PATENT-CLASS-427-88	c 44	N83-13579 *
US-PATENT-CLASS-427-164	c 27	N78-14164 *	US-PATENT-CLASS-427-379	c 27	N76-23426 *	US-PATENT-CLASS-427-88	c 33	N84-16456 *
US-PATENT-CLASS-427-164	c 27	N78-31233 *	US-PATENT-CLASS-427-379	c 27	N78-32260 *	US-PATENT-CLASS-427-89	c 44	N83-13579 *
US-PATENT-CLASS-427-164	c 74	N78-32854 *	US-PATENT-CLASS-427-379	c 27	N81-19296 *	US-PATENT-CLASS-427-90	c 44	N83-13579 *
US-PATENT-CLASS-427-164	c 27	N80-24437 *	US-PATENT-CLASS-427-379	c 24	N83-13171 *	US-PATENT-CLASS-427-91	c 44	N83-13579 *
US-PATENT-CLASS-427-164	c 27	N86-31727 *	US-PATENT-CLASS-427-379	c 24	N83-13172 *	US-PATENT-CLASS-427-95	c 25	N79-28253 *
US-PATENT-CLASS-427-165	c 27	N86-31727 *	US-PATENT-CLASS-427-379	c 44	N84-28205 *	US-PATENT-CLASS-427-96	c 33	N84-16456 *
US-PATENT-CLASS-427-178	c 24	N85-30027 *	US-PATENT-CLASS-427-37	c 24	N85-30027 *	US-PATENT-CLASS-428-109	c 27	N76-14264 *
US-PATENT-CLASS-427-191	c 26	N85-35267 *	US-PATENT-CLASS-427-380	c 27	N76-22377 *	US-PATENT-CLASS-428-109	c 33	N79-12331 *
US-PATENT-CLASS-427-191	c 26	N86-32550 *	US-PATENT-CLASS-427-380	c 27	N76-23426 *	US-PATENT-CLASS-428-113	c 24	N81-14000 *
US-PATENT-CLASS-427-192	c 26	N86-32550 *	US-PATENT-CLASS-427-380	c 27	N78-32260 *	US-PATENT-CLASS-428-114	c 24	N81-13999 *
US-PATENT-CLASS-427-196	c 27	N76-15310 *	US-PATENT-CLASS-427-380	c 44	N84-28205 *	US-PATENT-CLASS-428-114	c 24	N81-14000 *
US-PATENT-CLASS-427-203	c 27	N76-16229 *	US-PATENT-CLASS-427-380	c 26	N85-35267 *	US-PATENT-CLASS-428-116	c 24	N78-10214 *
US-PATENT-CLASS-427-204	c 27	N76-16229 *	US-PATENT-CLASS-427-384	c 24	N83-13171 *	US-PATENT-CLASS-428-116	c 24	N78-17149 *
US-PATENT-CLASS-427-205	c 27	N76-16229 *	US-PATENT-CLASS-427-384	c 24	N83-13172 *	US-PATENT-CLASS-428-116	c 24	N86-28131 *
US-PATENT-CLASS-427-205	c 27	N82-28441 *	US-PATENT-CLASS-427-385.5	c 27	N81-14078 *	US-PATENT-CLASS-428-117	c 37	N76-24575 *
US-PATENT-CLASS-427-215	c 27	N78-32260 *	US-PATENT-CLASS-427-385.5	c 27	N86-20561 *	US-PATENT-CLASS-428-117	c 24	N78-15180 *
US-PATENT-CLASS-427-215	c 24	N83-33950 *	US-PATENT-CLASS-427-385B	c 44	N78-25530 *	US-PATENT-CLASS-428-117	c 24	N79-16915 *
US-PATENT-CLASS-427-216	c 33	N84-16456 *	US-PATENT-CLASS-427-385C	c 44	N78-25530 *	US-PATENT-CLASS-428-119	c 24	N79-16915 *
US-PATENT-CLASS-427-217	c 33	N84-16456 *	US-PATENT-CLASS-427-386	c 24	N78-27180 *	US-PATENT-CLASS-428-133	c 37	N79-10422 *
US-PATENT-CLASS-427-219.2	c 27	N83-31855 *	US-PATENT-CLASS-427-387	c 74	N78-32854 *	US-PATENT-CLASS-428-137	c 24	N79-25142 *
US-PATENT-CLASS-427-221	c 27	N81-19296 *	US-PATENT-CLASS-427-387	c 24	N83-13171 *	US-PATENT-CLASS-428-138	c 24	N78-10214 *
US-PATENT-CLASS-427-226	c 33	N84-16456 *	US-PATENT-CLASS-427-387	c 24	N83-13172 *	US-PATENT-CLASS-428-139	c 23	N81-29160 *
US-PATENT-CLASS-427-226	c 44	N84-28205 *	US-PATENT-CLASS-427-388.1	c 27	N86-20561 *	US-PATENT-CLASS-428-140	c 24	N81-14000 *
US-PATENT-CLASS-427-228	c 26	N85-35267 *	US-PATENT-CLASS-427-388A	c 24	N78-27180 *	US-PATENT-CLASS-428-141	c 24	N77-28225 *
US-PATENT-CLASS-427-229	c 25	N78-10225 *	US-PATENT-CLASS-427-38	c 74	N78-32854 *	US-PATENT-CLASS-428-141	c 27	N82-28440 *
US-PATENT-CLASS-427-229	c 37	N87-21334 *	US-PATENT-CLASS-427-38	c 27	N80-24437 *	US-PATENT-CLASS-428-141	c 27	N82-33521 *
US-PATENT-CLASS-427-230	c 37	N76-31524 *	US-PATENT-CLASS-427-38	c 26	N85-29005 *	US-PATENT-CLASS-428-155	c 37	N84-22957 *
US-PATENT-CLASS-427-240	c 37	N81-33482 *	US-PATENT-CLASS-427-38	c 27	N86-19458 *	US-PATENT-CLASS-428-161	c 24	N77-28225 *
US-PATENT-CLASS-427-241	c 24	N83-33950 *	US-PATENT-CLASS-427-38	c 26	N88-14179 *	US-PATENT-CLASS-428-182	c 18	N84-33450 *
US-PATENT-CLASS-427-243	c 31	N83-35177 *	US-PATENT-CLASS-427-393.3	c 27	N82-16238 *	US-PATENT-CLASS-428-182	c 31	N89-12786 *
US-PATENT-CLASS-427-244	c 25	N82-21268 *	US-PATENT-CLASS-427-397.7	c 27	N82-33520 *	US-PATENT-CLASS-428-184	c 18	N84-33450 *
US-PATENT-CLASS-427-245	c 27	N80-23452 *	US-PATENT-CLASS-427-397.7	c 26	N85-35267 *	US-PATENT-CLASS-428-189	c 27	N79-12221 *
US-PATENT-CLASS-427-245	c 31	N88-29052 *	US-PATENT-CLASS-427-398A	c 44	N79-11472 *	US-PATENT-CLASS-428-192	c 27	N82-24339 *
US-PATENT-CLASS-427-246	c 25	N82-21268 *	US-PATENT-CLASS-427-399	c 44	N79-11472 *	US-PATENT-CLASS-428-193	c 27	N82-24339 *
US-PATENT-CLASS-427-247	c 31	N83-35177 *	US-PATENT-CLASS-427-399	c 36	N84-22944 *	US-PATENT-CLASS-428-202	c 27	N84-14323 *
US-PATENT-CLASS-427-248.1	c 27	N86-19458 *	US-PATENT-CLASS-427-39	c 24	N85-21267 *	US-PATENT-CLASS-428-212	c 27	N76-14264 *
US-PATENT-CLASS-427-248E	c 37	N78-13436 *	US-PATENT-CLASS-427-39	c 31	N86-32587 *	US-PATENT-CLASS-428-212	c 27	N79-12221 *
US-PATENT-CLASS-427-248J	c 44	N78-24609 *	US-PATENT-CLASS-427-400	c 27	N83-34039 *	US-PATENT-CLASS-428-212	c 27	N82-29456 *
US-PATENT-CLASS-427-248	c 44	N76-28635 *	US-PATENT-CLASS-427-402	c 27	N76-22377 *	US-PATENT-CLASS-428-214	c 27	N76-14264 *
US-PATENT-CLASS-427-249	c 44	N76-28635 *	US-PATENT-CLASS-427-402	c 27	N76-23426 *	US-PATENT-CLASS-428-216	c 76	N90-24168 *
US-PATENT-CLASS-427-249	c 44	N78-24609 *	US-PATENT-CLASS-427-405	c 34	N78-18355 *	US-PATENT-CLASS-428-218	c 27	N82-29456 *
US-PATENT-CLASS-427-250	c 12	N76-15189 *	US-PATENT-CLASS-427-405	c 27	N82-28441 *	US-PATENT-CLASS-428-218	c 24	N83-13171 *
US-PATENT-CLASS-427-250	c 44	N76-28635 *	US-PATENT-CLASS-427-405	c 27	N83-31855 *	US-PATENT-CLASS-428-220	c 15	N79-26100 *
US-PATENT-CLASS-427-250	c 37	N78-13436 *	US-PATENT-CLASS-427-405	c 26	N84-27855 *	US-PATENT-CLASS-428-241	c 27	N82-24339 *
US-PATENT-CLASS-427-253	c 27	N82-28441 *	US-PATENT-CLASS-427-407.1	c 27	N83-34039 *	US-PATENT-CLASS-428-241	c 27	N83-18908 *
US-PATENT-CLASS-427-255	c 37	N78-13436 *	US-PATENT-CLASS-427-40	c 27	N78-31233 *	US-PATENT-CLASS-428-242	c 27	N82-24339 *
US-PATENT-CLASS-427-261	c 44	N78-25527 *	US-PATENT-CLASS-427-40	c 27	N79-18052 *	US-PATENT-CLASS-428-244	c 27	N83-18908 *
US-PATENT-CLASS-427-261	c 44	N79-11472 *	US-PATENT-CLASS-427-40	c 27	N80-24437 *	US-PATENT-CLASS-428-245	c 27	N82-24339 *
US-PATENT-CLASS-427-270	c 27	N76-16229 *	US-PATENT-CLASS-427-419.2	c 26	N83-31795 *	US-PATENT-CLASS-428-245	c 27	N83-18908 *
US-PATENT-CLASS-427-272	c 31	N90-19427 *	US-PATENT-CLASS-427-419.2	c 26	N84-27855 *	US-PATENT-CLASS-428-246	c 27	N84-14322 *
US-PATENT-CLASS-427-272	c 24	N90-25197 *	US-PATENT-CLASS-427-419A	c 34	N78-18355 *	US-PATENT-CLASS-428-246	c 03	N84-33394 *
US-PATENT-CLASS-427-275	c 27	N76-16229 *	US-PATENT-CLASS-427-41	c 27	N78-31233 *	US-PATENT-CLASS-428-247	c 33	N79-12331 *
US-PATENT-CLASS-427-282	c 24	N90-25197 *	US-PATENT-CLASS-427-41	c 74	N78-32854 *	US-PATENT-CLASS-428-247	c 33	N82-26571 *
US-PATENT-CLASS-427-287	c 27	N76-16229 *	US-PATENT-CLASS-427-41	c 27	N79-14214 *	US-PATENT-CLASS-428-251	c 27	N82-24339 *
US-PATENT-CLASS-427-290	c 24	N90-25197 *	US-PATENT-CLASS-427-41	c 27	N79-18052 *	US-PATENT-CLASS-428-252	c 54	N90-25498 *
US-PATENT-CLASS-427-292	c 24	N79-17916 *	US-PATENT-CLASS-427-41	c 27	N80-23452 *	US-PATENT-CLASS-428-257	c 27	N82-24339 *
US-PATENT-CLASS-427-292	c 24	N83-13172 *	US-PATENT-CLASS-427-421	c 71	N84-16940 *	US-PATENT-CLASS-428-258	c 33	N79-12331 *
US-PATENT-CLASS-427-294	c 27	N79-14214 *	US-PATENT-CLASS-427-421	c 26	N86-32550 *	US-PATENT-CLASS-428-259	c 33	N79-12331 *
US-PATENT-CLASS-427-294	c 26	N85-35267 *	US-PATENT-CLASS-427-422	c 24	N85-30027 *	US-PATENT-CLASS-428-260	c 27	N81-27272 *
US-PATENT-CLASS-427-296	c 26	N84-22734 *	US-PATENT-CLASS-427-423	c 34	N78-18355 *	US-PATENT-CLASS-428-260	c 27	N82-24339 *
US-PATENT-CLASS-427-2	c 52	N90-20616 *	US-PATENT-CLASS-427-423	c 27	N82-29453 *	US-PATENT-CLASS-428-260	c 27	N83-18908 *
US-PATENT-CLASS-427-302	c 74	N78-32854 *	US-PATENT-CLASS-427-423	c 27	N83-31855 *	US-PATENT-CLASS-428-260	c 27	N84-14322 *
US-PATENT-CLASS-427-302	c 24	N83-13172 *	US-PATENT-CLASS-427-423	c 31	N83-35177 *	US-PATENT-CLASS-428-260	c 27	N85-34281 *
US-PATENT-CLASS-427-306	c 26	N84-22734 *	US-PATENT-CLASS-427-423	c 37	N84-22957 *	US-PATENT-CLASS-428-262	c 27	N87-14516 *
US-PATENT-CLASS-427-318	c 26	N83-31795 *	US-PATENT-CLASS-427-425	c 37	N82-24492 *	US-PATENT-CLASS-428-263	c 27	N82-16238 *
US-PATENT-CLASS-427-322	c 34	N77-18382 *	US-PATENT-CLASS-427-426	c 27	N76-15310 *	US-PATENT-CLASS-428-264	c 27	N82-16238 *
US-PATENT-CLASS-427-322	c 74	N78-32854 *	US-PATENT-CLASS-427-426	c 71	N84-16940 *	US-PATENT-CLASS-428-265	c 27	N82-16238 *
US-PATENT-CLASS-427-322	c 27	N83-34039 *	US-PATENT-CLASS-427-427	c 24	N78-24290 *	US-PATENT-CLASS-428-266	c 27	N82-24339 *
US-PATENT-CLASS-427-327	c 24	N79-17916 *	US-PATENT-CLASS-427-427	c 26	N86-32550 *	US-PATENT-CLASS-428-267	c 27	N82-16238 *
US-PATENT-CLASS-427-328	c 24	N79-17916 *	US-PATENT-CLASS-427-429	c 27	N81-14078 *	US-PATENT-CLASS-428-272	c 27	N82-16238 *
US-PATENT-CLASS-427-340	c 27	N83-34039 *	US-PATENT-CLASS-427-436	c 33	N84-16456 *	US-PATENT-CLASS-428-280	c 27	N79-12221 *
US-PATENT-CLASS-427-343	c 44	N79-11472 *	US-PATENT-CLASS-427-437	c 33	N84-16456 *	US-PATENT-CLASS-428-280	c 03	N84-33394 *
US-PATENT-CLASS-427-346	c 71	N84-16940 *	US-PATENT-CLASS-427-443.2	c 25	N84-12262 *	US-PATENT-CLASS-428-282	c 24	N79-25142 *
US-PATENT-CLASS-427-34	c 34	N78-18355 *	US-PATENT-CLASS-427-443	c 44	N84-28205 *	US-PATENT-CLASS-428-283	c 24	N82-29362 *
US-PATENT-CLASS-427-34	c 24	N79-17916 *	US-PATENT-CLASS-427-44	c 74	N78-32854 *	US-PATENT-CLASS-428-283	c 27	N82-29456 *

US-PATENT-CLASS-428-284	c 24	N82-29362 *	US-PATENT-CLASS-428-421	c 27	N87-16909 *	US-PATENT-CLASS-428-594	c 24	N82-24296 *
US-PATENT-CLASS-428-285	c 27	N79-12221 *	US-PATENT-CLASS-428-421	c 27	N87-23736 *	US-PATENT-CLASS-428-594	c 24	N82-32417 *
US-PATENT-CLASS-428-286	c 27	N79-12221 *	US-PATENT-CLASS-428-422	c 27	N78-31233 *	US-PATENT-CLASS-428-595	c 18	N84-33450 *
US-PATENT-CLASS-428-286	c 24	N82-29362 *	US-PATENT-CLASS-428-422	c 76	N83-34796 *	US-PATENT-CLASS-428-604	c 24	N82-24296 *
US-PATENT-CLASS-428-287	c 24	N82-29362 *	US-PATENT-CLASS-428-422	c 27	N87-23736 *	US-PATENT-CLASS-428-604	c 24	N82-32417 *
US-PATENT-CLASS-428-287	c 03	N84-33394 *	US-PATENT-CLASS-428-422	c 54	N90-25498 *	US-PATENT-CLASS-428-607	c 24	N82-32417 *
US-PATENT-CLASS-428-288	c 24	N82-29362 *	US-PATENT-CLASS-428-423.5	c 03	N84-33394 *	US-PATENT-CLASS-428-607	c 26	N87-25455 *
US-PATENT-CLASS-428-288	c 27	N89-29538 *	US-PATENT-CLASS-428-425	c 24	N77-28225 *	US-PATENT-CLASS-428-607	c 24	N90-23480 *
US-PATENT-CLASS-428-289	c 27	N82-29456 *	US-PATENT-CLASS-428-426	c 74	N78-15879 *	US-PATENT-CLASS-428-608	c 24	N82-32417 *
US-PATENT-CLASS-428-290	c 24	N78-15180 *	US-PATENT-CLASS-428-427	c 27	N78-32260 *	US-PATENT-CLASS-428-623	c 27	N83-31855 *
US-PATENT-CLASS-428-290	c 24	N79-25142 *	US-PATENT-CLASS-428-427	c 44	N83-34448 *	US-PATENT-CLASS-428-623	c 24	N90-23480 *
US-PATENT-CLASS-428-290	c 27	N87-28657 *	US-PATENT-CLASS-428-428	c 27	N76-22377 *	US-PATENT-CLASS-428-627	c 24	N90-23480 *
US-PATENT-CLASS-428-290	c 54	N90-25498 *	US-PATENT-CLASS-428-428	c 27	N76-23426 *	US-PATENT-CLASS-428-629	c 44	N80-16452 *
US-PATENT-CLASS-428-294	c 24	N78-17150 *	US-PATENT-CLASS-428-428	c 74	N78-15879 *	US-PATENT-CLASS-428-632	c 26	N81-25188 *
US-PATENT-CLASS-428-294	c 76	N83-34796 *	US-PATENT-CLASS-428-428	c 27	N78-32260 *	US-PATENT-CLASS-428-632	c 26	N84-27855 *
US-PATENT-CLASS-428-301	c 24	N77-27188 *	US-PATENT-CLASS-428-428	c 44	N83-34448 *	US-PATENT-CLASS-428-632	c 26	N87-25455 *
US-PATENT-CLASS-428-302	c 24	N78-17150 *	US-PATENT-CLASS-428-432	c 27	N84-33589 *	US-PATENT-CLASS-428-632	c 24	N90-23480 *
US-PATENT-CLASS-428-303	c 27	N76-15310 *	US-PATENT-CLASS-428-432	c 76	N85-33826 *	US-PATENT-CLASS-428-633	c 34	N78-18355 *
US-PATENT-CLASS-428-304.4	c 03	N84-33394 *	US-PATENT-CLASS-428-446	c 27	N78-32260 *	US-PATENT-CLASS-428-633	c 27	N83-31855 *
US-PATENT-CLASS-428-307.7	c 27	N82-29456 *	US-PATENT-CLASS-428-446	c 27	N82-29456 *	US-PATENT-CLASS-428-633	c 24	N85-21266 *
US-PATENT-CLASS-428-311.5	c 27	N82-29456 *	US-PATENT-CLASS-428-446	c 27	N86-19458 *	US-PATENT-CLASS-428-633	c 24	N85-35233 *
US-PATENT-CLASS-428-312.6	c 27	N82-29456 *	US-PATENT-CLASS-428-447	c 27	N76-14264 *	US-PATENT-CLASS-428-639	c 26	N84-33555 *
US-PATENT-CLASS-428-312.6	c 44	N83-34448 *	US-PATENT-CLASS-428-447	c 27	N76-16230 *	US-PATENT-CLASS-428-639	c 24	N83-31712 *
US-PATENT-CLASS-428-312	c 27	N78-32260 *	US-PATENT-CLASS-428-447	c 27	N78-31233 *	US-PATENT-CLASS-428-641	c 26	N83-31795 *
US-PATENT-CLASS-428-313	c 24	N78-27180 *	US-PATENT-CLASS-428-447	c 74	N78-32854 *	US-PATENT-CLASS-428-641	c 76	N90-19884 *
US-PATENT-CLASS-428-317.9	c 27	N82-29456 *	US-PATENT-CLASS-428-447	c 27	N79-12221 *	US-PATENT-CLASS-428-650	c 44	N80-16452 *
US-PATENT-CLASS-428-319.1	c 03	N84-33394 *	US-PATENT-CLASS-428-447	c 27	N79-18052 *	US-PATENT-CLASS-428-650	c 26	N83-31795 *
US-PATENT-CLASS-428-325	c 27	N78-32260 *	US-PATENT-CLASS-428-447	c 24	N79-25142 *	US-PATENT-CLASS-428-651	c 26	N87-25455 *
US-PATENT-CLASS-428-325	c 27	N82-29456 *	US-PATENT-CLASS-428-447	c 27	N82-24339 *	US-PATENT-CLASS-428-652	c 34	N78-18355 *
US-PATENT-CLASS-428-325	c 44	N83-34448 *	US-PATENT-CLASS-428-447	c 27	N87-14516 *	US-PATENT-CLASS-428-652	c 44	N78-19599 *
US-PATENT-CLASS-428-328	c 24	N77-27188 *	US-PATENT-CLASS-428-447	c 27	N87-23736 *	US-PATENT-CLASS-428-656	c 24	N85-21266 *
US-PATENT-CLASS-428-328	c 54	N90-25498 *	US-PATENT-CLASS-428-447	c 54	N90-25498 *	US-PATENT-CLASS-428-656	c 24	N85-35233 *
US-PATENT-CLASS-428-331	c 27	N78-32260 *	US-PATENT-CLASS-428-448	c 27	N82-24339 *	US-PATENT-CLASS-428-658	c 44	N80-16452 *
US-PATENT-CLASS-428-331	c 27	N83-18908 *	US-PATENT-CLASS-428-448	c 24	N88-18628 *	US-PATENT-CLASS-428-660	c 26	N87-25455 *
US-PATENT-CLASS-428-332	c 27	N76-22377 *	US-PATENT-CLASS-428-44	c 27	N89-12741 *	US-PATENT-CLASS-428-666	c 24	N90-23480 *
US-PATENT-CLASS-428-332	c 27	N76-23426 *	US-PATENT-CLASS-428-450	c 27	N76-16229 *	US-PATENT-CLASS-428-667	c 34	N78-18355 *
US-PATENT-CLASS-428-332	c 24	N78-27180 *	US-PATENT-CLASS-428-450	c 27	N76-22377 *	US-PATENT-CLASS-428-667	c 44	N78-19599 *
US-PATENT-CLASS-428-332	c 27	N79-12221 *	US-PATENT-CLASS-428-450	c 27	N76-23426 *	US-PATENT-CLASS-428-675	c 44	N80-16452 *
US-PATENT-CLASS-428-332	c 24	N79-25142 *	US-PATENT-CLASS-428-450	c 27	N79-12221 *	US-PATENT-CLASS-428-678	c 26	N81-25188 *
US-PATENT-CLASS-428-332	c 27	N82-24340 *	US-PATENT-CLASS-428-450	c 26	N83-31795 *	US-PATENT-CLASS-428-678	c 27	N83-31855 *
US-PATENT-CLASS-428-334	c 74	N78-15879 *	US-PATENT-CLASS-428-450	c 76	N90-24168 *	US-PATENT-CLASS-428-678	c 26	N84-33555 *
US-PATENT-CLASS-428-336	c 74	N78-15879 *	US-PATENT-CLASS-428-451	c 27	N79-18052 *	US-PATENT-CLASS-428-678	c 24	N85-21266 *
US-PATENT-CLASS-428-336	c 27	N86-31727 *	US-PATENT-CLASS-428-457	c 27	N76-16229 *	US-PATENT-CLASS-428-678	c 24	N85-35233 *
US-PATENT-CLASS-428-339	c 27	N82-24340 *	US-PATENT-CLASS-428-457	c 24	N77-27188 *	US-PATENT-CLASS-428-679	c 44	N78-19599 *
US-PATENT-CLASS-428-341	c 27	N78-32260 *	US-PATENT-CLASS-428-457	c 24	N77-28225 *	US-PATENT-CLASS-428-679	c 26	N81-25188 *
US-PATENT-CLASS-428-347	c 27	N84-14323 *	US-PATENT-CLASS-428-457	c 26	N82-30371 *	US-PATENT-CLASS-428-679	c 24	N85-21266 *
US-PATENT-CLASS-428-35.9	c 24	N90-25196 *	US-PATENT-CLASS-428-457	c 76	N90-24168 *	US-PATENT-CLASS-428-679	c 24	N85-35233 *
US-PATENT-CLASS-428-35	c 34	N77-18382 *	US-PATENT-CLASS-428-458	c 24	N77-28225 *	US-PATENT-CLASS-428-680	c 44	N80-16452 *
US-PATENT-CLASS-428-366	c 24	N79-24062 *	US-PATENT-CLASS-428-458	c 24	N79-16915 *	US-PATENT-CLASS-428-680	c 26	N81-25188 *
US-PATENT-CLASS-428-367	c 27	N81-27272 *	US-PATENT-CLASS-428-458	c 27	N86-20561 *	US-PATENT-CLASS-428-680	c 26	N83-31795 *
US-PATENT-CLASS-428-367	c 24	N83-33950 *	US-PATENT-CLASS-428-458	c 54	N90-25498 *	US-PATENT-CLASS-428-680	c 24	N85-21266 *
US-PATENT-CLASS-428-367	c 27	N84-14322 *	US-PATENT-CLASS-428-461	c 34	N77-18382 *	US-PATENT-CLASS-428-680	c 24	N85-35233 *
US-PATENT-CLASS-428-367	c 27	N87-28656 *	US-PATENT-CLASS-428-462	c 27	N82-24340 *	US-PATENT-CLASS-428-680	c 24	N90-23480 *
US-PATENT-CLASS-428-367	c 27	N89-29538 *	US-PATENT-CLASS-428-466	c 27	N82-24340 *	US-PATENT-CLASS-428-681	c 24	N85-21266 *
US-PATENT-CLASS-428-367	c 24	N90-25196 *	US-PATENT-CLASS-428-469	c 27	N76-16229 *	US-PATENT-CLASS-428-681	c 24	N85-35233 *
US-PATENT-CLASS-428-368	c 24	N77-27188 *	US-PATENT-CLASS-428-469	c 26	N83-31795 *	US-PATENT-CLASS-428-682	c 24	N85-21266 *
US-PATENT-CLASS-428-368	c 27	N83-18908 *	US-PATENT-CLASS-428-471	c 26	N81-25188 *	US-PATENT-CLASS-428-682	c 24	N85-35233 *
US-PATENT-CLASS-428-370	c 27	N84-22745 *	US-PATENT-CLASS-428-472	c 26	N82-30371 *	US-PATENT-CLASS-428-683	c 24	N85-21266 *
US-PATENT-CLASS-428-375	c 24	N79-16915 *	US-PATENT-CLASS-428-473.5	c 27	N81-14078 *	US-PATENT-CLASS-428-684	c 24	N85-21266 *
US-PATENT-CLASS-428-375	c 24	N83-33950 *	US-PATENT-CLASS-428-473.5	c 27	N81-29229 *	US-PATENT-CLASS-428-698	c 76	N85-33826 *
US-PATENT-CLASS-428-375	c 27	N89-29538 *	US-PATENT-CLASS-428-473.5	c 27	N84-14322 *	US-PATENT-CLASS-428-698	c 26	N85-35267 *
US-PATENT-CLASS-428-376	c 24	N90-25196 *	US-PATENT-CLASS-428-473.5	c 27	N86-19458 *	US-PATENT-CLASS-428-698	c 27	N89-29538 *
US-PATENT-CLASS-428-379	c 24	N90-25196 *	US-PATENT-CLASS-428-473.5	c 27	N86-20561 *	US-PATENT-CLASS-428-702	c 27	N86-19458 *
US-PATENT-CLASS-428-390	c 27	N89-29538 *	US-PATENT-CLASS-428-473.5	c 24	N86-25416 *	US-PATENT-CLASS-428-702	c 27	N87-23736 *
US-PATENT-CLASS-428-392	c 24	N83-33950 *	US-PATENT-CLASS-428-473.5	c 27	N86-31726 *	US-PATENT-CLASS-428-704	c 26	N85-35267 *
US-PATENT-CLASS-428-406	c 27	N78-32260 *	US-PATENT-CLASS-428-473.5	c 27	N86-31727 *	US-PATENT-CLASS-428-704	c 27	N87-16909 *
US-PATENT-CLASS-428-408	c 27	N81-27272 *	US-PATENT-CLASS-428-473.5	c 27	N87-16909 *	US-PATENT-CLASS-428-71	c 24	N78-15180 *
US-PATENT-CLASS-428-408	c 27	N84-14322 *	US-PATENT-CLASS-428-473.5	c 27	N87-23736 *	US-PATENT-CLASS-428-71	c 03	N84-33394 *
US-PATENT-CLASS-428-408	c 27	N84-22745 *	US-PATENT-CLASS-428-474	c 34	N77-18382 *	US-PATENT-CLASS-428-71	c 27	N89-12741 *
US-PATENT-CLASS-428-408	c 27	N85-34281 *	US-PATENT-CLASS-428-474.4	c 24	N86-25416 *	US-PATENT-CLASS-428-73	c 24	N78-10214 *
US-PATENT-CLASS-428-408	c 24	N86-28131 *	US-PATENT-CLASS-428-474	c 54	N90-25498 *	US-PATENT-CLASS-428-73	c 24	N78-15180 *
US-PATENT-CLASS-428-408	c 27	N89-29538 *	US-PATENT-CLASS-428-474	c 27	N79-33316 *	US-PATENT-CLASS-428-73	c 24	N79-16915 *
US-PATENT-CLASS-428-408	c 52	N90-20616 *	US-PATENT-CLASS-428-474	c 27	N80-24437 *	US-PATENT-CLASS-428-74	c 24	N88-18628 *
US-PATENT-CLASS-428-40	c 27	N84-14323 *	US-PATENT-CLASS-428-477.7	c 24	N86-25416 *	US-PATENT-CLASS-428-76	c 03	N84-33394 *
US-PATENT-CLASS-428-410	c 23	N86-19376 *	US-PATENT-CLASS-428-477	c 27	N89-12741 *	US-PATENT-CLASS-428-76	c 24	N88-18628 *
US-PATENT-CLASS-428-411	c 27	N78-14164 *	US-PATENT-CLASS-428-480	c 24	N81-14000 *	US-PATENT-CLASS-428-76	c 27	N89-12741 *
US-PATENT-CLASS-428-411	c 27	N78-31233 *	US-PATENT-CLASS-428-493	c 27	N82-24340 *	US-PATENT-CLASS-428-77	c 27	N76-14264 *
US-PATENT-CLASS-428-411	c 27	N79-14214 *	US-PATENT-CLASS-428-49	c 27	N82-24339 *	US-PATENT-CLASS-428-77	c 27	N79-12221 *
US-PATENT-CLASS-428-412	c 27	N76-16230 *	US-PATENT-CLASS-428-500	c 27	N82-29456 *	US-PATENT-CLASS-428-78	c 27	N84-14323 *
US-PATENT-CLASS-428-412	c 27	N78-31233 *	US-PATENT-CLASS-428-500	c 27	N80-32516 *	US-PATENT-CLASS-428-901	c 76	N90-24168 *
US-PATENT-CLASS-428-412	c 74	N78-32854 *	US-PATENT-CLASS-428-515	c 27	N87-16909 *	US-PATENT-CLASS-428-902	c 24	N77-27188 *
US-PATENT-CLASS-428-412	c 27	N79-18052 *	US-PATENT-CLASS-428-522	c 27	N78-31233 *	US-PATENT-CLASS-428-902	c 24	N78-10214 *
US-PATENT-CLASS-428-413	c 27	N76-16230 *	US-PATENT-CLASS-428-523	c 27	N78-14164 *	US-PATENT-CLASS-428-902	c 24	N78-17149 *
US-PATENT-CLASS-428-413	c 15	N79-26100 *	US-PATENT-CLASS-428-523	c 27	N78-31233 *	US-PATENT-CLASS-428-902	c 24	N81-14000 *
US-PATENT-CLASS-428-413	c 24	N81-14000 *	US-PATENT-CLASS-428-528	c 24	N81-13999 *	US-PATENT-CLASS-428-902	c 31	N81-25258 *
US-PATENT-CLASS-428-413	c 27	N85-34281 *	US-PATENT-CLASS-428-538	c 27	N76-22377 *	US-PATENT-CLASS-428-902	c 27	N81-27272 *
US-PATENT-CLASS-428-413	c 27	N87-25469 *	US-PATENT-CLASS-428-538	c 27	N76-23426 *	US-PATENT-CLASS-428-902	c 27	N83-18908 *
US-PATENT-CLASS-428-414	c 15	N79-26100 *	US-PATENT-CLASS-428-538	c 27	N78-31233 *	US-PATENT-CLASS-428-902	c 24	N83-33950 *
US-PATENT-CLASS-428-416	c 27	N76-14264 *	US-PATENT-CLASS-428-539	c 27	N76-16229 *	US-PATENT-CLASS-428-902	c 27	N84-14322 *
US-PATENT-CLASS-428-417	c 27	N87-25469 *	US-PATENT-CLASS-428-541	c 24	N81-13999 *	US-PATENT-CLASS-428-902	c 27	N84-22745 *
US-PATENT-CLASS-428-418	c 24	N77-27188 *	US-PATENT-CLASS-428-551	c 24	N90-23493 *	US-PATENT-CLASS-428-903	c 24	N83-33950 *
US-PATENT-CLASS-428-418	c 15	N79-26100 *	US-PATENT-CLASS-428-552	c 24	N90-23493 *	US-PATENT-CLASS-428-911	c 27	N76-16230 *
US-PATENT-CLASS-428-421	c 34	N77-18382 *	US-PATENT-CLASS-428-564	c 26	N84-33555 *	US-PATENT-CLASS-428-911	c 24	N77-27188 *
US-PATENT-CLASS-428-421	c 15	N79-26100 *	US-PATENT-CLASS-428-58	c 27	N89-12741 *	US-PATENT-CLASS-428-913	c 34	N78-25350 *
US-PATENT-CLASS-428-421	c 27	N80-24437 *	US-PATENT-CLASS-428-593	c 24	N82-24296 *	US-PATENT-CLASS-428-913	c 27	N83-18908 *
US-PATENT-CLASS-428-421	c 76	N83-34796 *	US-PATENT-CLASS-428-593	c 24	N84-11214 *	US-PATENT-CLASS-428-913	c 76	N85-33826 *

US-PATENT-CLASS-428-920	c 27	N76-16230 *	US-PATENT-CLASS-430-325	c 27	N81-25209 *	US-PATENT-CLASS-437-239	c 72	N91-14813 *
US-PATENT-CLASS-428-920	c 27	N76-22377 *	US-PATENT-CLASS-430-329	c 27	N81-25209 *	US-PATENT-CLASS-437-3	c 76	N88-14836 *
US-PATENT-CLASS-428-920	c 27	N76-23426 *	US-PATENT-CLASS-430-330	c 27	N81-25209 *	US-PATENT-CLASS-437-7	c 76	N88-14836 *
US-PATENT-CLASS-428-920	c 24	N78-15180 *	US-PATENT-CLASS-430-372	c 35	N82-11432 *	US-PATENT-CLASS-437-8	c 76	N88-14836 *
US-PATENT-CLASS-428-920	c 27	N78-32280 *	US-PATENT-CLASS-431-10	c 34	N78-27357 *	US-PATENT-CLASS-437-903	c 76	N90-19884 *
US-PATENT-CLASS-428-920	c 27	N79-12221 *	US-PATENT-CLASS-431-10	c 25	N79-11151 *	US-PATENT-CLASS-437-930	c 72	N91-14813 *
US-PATENT-CLASS-428-920	c 24	N79-25142 *	US-PATENT-CLASS-431-116	c 44	N77-10636 *	US-PATENT-CLASS-437-936	c 72	N91-14813 *
US-PATENT-CLASS-428-920	c 15	N79-26100 *	US-PATENT-CLASS-431-11	c 44	N77-10636 *	US-PATENT-CLASS-437-969	c 76	N88-14836 *
US-PATENT-CLASS-428-920	c 27	N81-27272 *	US-PATENT-CLASS-431-13	c 25	N88-29002 *	US-PATENT-CLASS-439-271	c 33	N88-14270 *
US-PATENT-CLASS-428-920	c 27	N83-18908 *	US-PATENT-CLASS-431-158	c 25	N78-10224 *	US-PATENT-CLASS-439-578	c 33	N88-14270 *
US-PATENT-CLASS-428-920	c 27	N84-14322 *	US-PATENT-CLASS-431-162	c 44	N77-10636 *	US-PATENT-CLASS-44-1-SR	c 25	N85-35253 *
US-PATENT-CLASS-428-920	c 27	N84-22745 *	US-PATENT-CLASS-431-163	c 44	N76-29704 *	US-PATENT-CLASS-44-1R	c 44	N78-31527 *
US-PATENT-CLASS-428-920	c 24	N88-18628 *	US-PATENT-CLASS-431-170	c 44	N77-10636 *	US-PATENT-CLASS-44-1R	c 25	N81-33246 *
US-PATENT-CLASS-428-921	c 27	N76-16230 *	US-PATENT-CLASS-431-173	c 23	N73-30665 *	US-PATENT-CLASS-44-1SR	c 25	N82-29371 *
US-PATENT-CLASS-428-921	c 24	N78-27180 *	US-PATENT-CLASS-431-1	c 25	N84-16276 *	US-PATENT-CLASS-44-1SR	c 25	N83-31743 *
US-PATENT-CLASS-428-921	c 24	N81-13999 *	US-PATENT-CLASS-431-202	c 25	N74-33378 *	US-PATENT-CLASS-44-2	c 44	N78-31527 *
US-PATENT-CLASS-428-921	c 03	N84-33394 *	US-PATENT-CLASS-431-208	c 25	N79-11151 *	US-PATENT-CLASS-44-2	c 25	N81-33246 *
US-PATENT-CLASS-428-921	c 24	N86-28131 *	US-PATENT-CLASS-431-210	c 44	N76-29704 *	US-PATENT-CLASS-44-50	c 27	N81-17261 *
US-PATENT-CLASS-428-922	c 27	N78-14164 *	US-PATENT-CLASS-431-2	c 07	N81-29129 *	US-PATENT-CLASS-44-51	c 25	N79-11152 *
US-PATENT-CLASS-428-938	c 27	N82-28441 *	US-PATENT-CLASS-431-328	c 34	N78-27357 *	US-PATENT-CLASS-44-62	c 27	N81-17261 *
US-PATENT-CLASS-428-93	c 34	N78-25350 *	US-PATENT-CLASS-431-352	c 28	N71-26915 *	US-PATENT-CLASS-44-7R	c 28	N81-14103 *
US-PATENT-CLASS-428-941	c 27	N82-28441 *	US-PATENT-CLASS-431-352	c 25	N78-10224 *	US-PATENT-CLASS-44-77	c 06	N71-23499 *
US-PATENT-CLASS-428-94	c 34	N78-25350 *	US-PATENT-CLASS-431-352	c 25	N90-11824 *	US-PATENT-CLASS-45-35	c 37	N85-33489 *
US-PATENT-CLASS-428-95	c 34	N78-25350 *	US-PATENT-CLASS-431-41	c 44	N77-10636 *	US-PATENT-CLASS-45-102	c 33	N81-15192 *
US-PATENT-CLASS-428-96	c 34	N78-25350 *	US-PATENT-CLASS-431-4	c 44	N76-29704 *	US-PATENT-CLASS-45-115	c 32	N89-14374 *
US-PATENT-CLASS-428-97	c 34	N78-25350 *	US-PATENT-CLASS-431-76	c 25	N88-29002 *	US-PATENT-CLASS-45-117	c 32	N89-14374 *
US-PATENT-CLASS-429-101	c 44	N79-17313 *	US-PATENT-CLASS-431-7	c 34	N78-27357 *	US-PATENT-CLASS-45-137	c 35	N82-15381 *
US-PATENT-CLASS-429-101	c 44	N79-26474 *	US-PATENT-CLASS-431-9	c 23	N73-30665 *	US-PATENT-CLASS-45-139	c 35	N82-15381 *
US-PATENT-CLASS-429-101	c 33	N80-20487 *	US-PATENT-CLASS-432-18	c 35	N86-20750 *	US-PATENT-CLASS-45-202	c 33	N82-29539 *
US-PATENT-CLASS-429-103	c 33	N91-14538 *	US-PATENT-CLASS-432-223	c 25	N79-11151 *	US-PATENT-CLASS-45-202	c 32	N84-27952 *
US-PATENT-CLASS-429-104	c 33	N91-14536 *	US-PATENT-CLASS-432-227	c 35	N83-24828 *	US-PATENT-CLASS-45-208	c 33	N82-29539 *
US-PATENT-CLASS-429-105	c 44	N77-22606 *	US-PATENT-CLASS-432-264	c 33	N81-19389 *	US-PATENT-CLASS-45-208	c 32	N84-27952 *
US-PATENT-CLASS-429-105	c 33	N80-20487 *	US-PATENT-CLASS-432-29	c 25	N79-11151 *	US-PATENT-CLASS-45-234	c 33	N82-29539 *
US-PATENT-CLASS-429-105	c 44	N83-27344 *	US-PATENT-CLASS-432-58	c 35	N83-24828 *	US-PATENT-CLASS-45-260	c 32	N84-27952 *
US-PATENT-CLASS-429-107	c 44	N77-22606 *	US-PATENT-CLASS-433-118	c 52	N82-29862 *	US-PATENT-CLASS-45-265	c 32	N84-27952 *
US-PATENT-CLASS-429-107	c 33	N80-20487 *	US-PATENT-CLASS-433-125	c 52	N82-29862 *	US-PATENT-CLASS-45-278	c 32	N81-29308 *
US-PATENT-CLASS-429-107	c 44	N83-27344 *	US-PATENT-CLASS-433-86	c 52	N82-29862 *	US-PATENT-CLASS-45-306	c 33	N82-29539 *
US-PATENT-CLASS-429-109	c 33	N80-20487 *	US-PATENT-CLASS-434-114	c 82	N87-29372 *	US-PATENT-CLASS-45-51	c 32	N81-14186 *
US-PATENT-CLASS-429-109	c 44	N83-27344 *	US-PATENT-CLASS-434-242	c 09	N85-19990 *	US-PATENT-CLASS-45-608	c 32	N87-21207 *
US-PATENT-CLASS-429-109	c 44	N86-19721 *	US-PATENT-CLASS-434-243	c 09	N85-19990 *	US-PATENT-CLASS-45-60	c 35	N82-15381 *
US-PATENT-CLASS-429-111	c 25	N84-12262 *	US-PATENT-CLASS-434-2	c 32	N84-27951 *	US-PATENT-CLASS-45-610	c 74	N82-19029 *
US-PATENT-CLASS-429-111	c 44	N84-23019 *	US-PATENT-CLASS-434-34	c 14	N87-25344 *	US-PATENT-CLASS-45-612	c 74	N82-19029 *
US-PATENT-CLASS-429-120	c 44	N81-24521 *	US-PATENT-CLASS-434-35	c 09	N85-19990 *	US-PATENT-CLASS-45-612	c 74	N83-29032 *
US-PATENT-CLASS-429-120	c 33	N91-14538 *	US-PATENT-CLASS-434-38	c 36	N83-34304 *	US-PATENT-CLASS-45-615	c 74	N82-19029 *
US-PATENT-CLASS-429-139	c 27	N80-32516 *	US-PATENT-CLASS-434-403	c 31	N83-34073 *	US-PATENT-CLASS-45-617	c 74	N82-19029 *
US-PATENT-CLASS-429-139	c 27	N81-24257 *	US-PATENT-CLASS-434-42	c 09	N82-24212 *	US-PATENT-CLASS-45-619	c 32	N81-14186 *
US-PATENT-CLASS-429-13	c 44	N79-10513 *	US-PATENT-CLASS-434-43	c 09	N82-24212 *	US-PATENT-CLASS-45-65	c 32	N87-25511 *
US-PATENT-CLASS-429-144	c 44	N82-29708 *	US-PATENT-CLASS-434-49	c 09	N85-19990 *	US-PATENT-CLASS-45-67	c 32	N89-14374 *
US-PATENT-CLASS-429-144	c 44	N83-32176 *	US-PATENT-CLASS-434-4	c 36	N83-34304 *	US-PATENT-CLASS-45-71	c 32	N81-14186 *
US-PATENT-CLASS-429-15	c 44	N79-26474 *	US-PATENT-CLASS-434-4	c 35	N86-32697 *	US-PATENT-CLASS-45-73	c 32	N85-29118 *
US-PATENT-CLASS-429-15	c 44	N86-19721 *	US-PATENT-CLASS-434-59	c 54	N81-27806 *	US-PATENT-CLASS-45-98	c 32	N89-14374 *
US-PATENT-CLASS-429-160	c 44	N81-24521 *	US-PATENT-CLASS-434-88	c 31	N83-34073 *	US-PATENT-CLASS-46-132	c 37	N91-17387 *
US-PATENT-CLASS-429-164	c 44	N81-24521 *	US-PATENT-CLASS-435-160	c 23	N85-35227 *	US-PATENT-CLASS-46-56	c 37	N91-17387 *
US-PATENT-CLASS-429-190	c 44	N77-22606 *	US-PATENT-CLASS-435-289	c 51	N80-27067 *	US-PATENT-CLASS-46-56	c 37	N91-17388 *
US-PATENT-CLASS-429-193	c 44	N82-29710 *	US-PATENT-CLASS-435-289	c 51	N83-27569 *	US-PATENT-CLASS-46-728	c 39	N80-10507 *
US-PATENT-CLASS-429-19	c 44	N86-19721 *	US-PATENT-CLASS-435-290	c 51	N80-27067 *	US-PATENT-CLASS-47-1.2	c 51	N75-25503 *
US-PATENT-CLASS-429-206	c 25	N83-13188 *	US-PATENT-CLASS-435-291	c 51	N80-27067 *	US-PATENT-CLASS-47-1.4	c 31	N73-32750 *
US-PATENT-CLASS-429-206	c 33	N84-14422 *	US-PATENT-CLASS-435-291	c 51	N81-28698 *	US-PATENT-CLASS-47-17	c 31	N73-32750 *
US-PATENT-CLASS-429-206	c 33	N85-29144 *	US-PATENT-CLASS-435-291	c 35	N82-28604 *	US-PATENT-CLASS-47-26	c 37	N83-26078 *
US-PATENT-CLASS-429-213	c 33	N91-14536 *	US-PATENT-CLASS-435-291	c 51	N83-27569 *	US-PATENT-CLASS-47-39	c 51	N75-25503 *
US-PATENT-CLASS-429-223	c 26	N84-22734 *	US-PATENT-CLASS-435-311	c 51	N80-27067 *	US-PATENT-CLASS-47-58	c 51	N75-25503 *
US-PATENT-CLASS-429-229	c 33	N84-14422 *	US-PATENT-CLASS-435-311	c 51	N91-14703 *	US-PATENT-CLASS-47-58	c 51	N83-17045 *
US-PATENT-CLASS-429-234	c 26	N84-22734 *	US-PATENT-CLASS-435-316	c 51	N80-27067 *	US-PATENT-CLASS-47-58	c 45	N84-12654 *
US-PATENT-CLASS-429-23	c 44	N77-14581 *	US-PATENT-CLASS-435-316	c 51	N91-14703 *	US-PATENT-CLASS-47-205	c 37	N80-32717 *
US-PATENT-CLASS-429-249	c 27	N81-24257 *	US-PATENT-CLASS-435-32	c 51	N80-27067 *	US-PATENT-CLASS-47-220	c 37	N87-17034 *
US-PATENT-CLASS-429-249	c 23	N81-29160 *	US-PATENT-CLASS-435-34	c 51	N80-16714 *	US-PATENT-CLASS-48-DIG.8	c 28	N80-10374 *
US-PATENT-CLASS-429-249	c 33	N85-29144 *	US-PATENT-CLASS-435-34	c 51	N80-27067 *	US-PATENT-CLASS-48-10.3	c 28	N80-10374 *
US-PATENT-CLASS-429-251	c 44	N82-29708 *	US-PATENT-CLASS-435-34	c 51	N81-28698 *	US-PATENT-CLASS-48-102A	c 28	N80-10374 *
US-PATENT-CLASS-429-251	c 44	N83-32176 *	US-PATENT-CLASS-435-34	c 35	N82-28604 *	US-PATENT-CLASS-48-107	c 28	N80-10374 *
US-PATENT-CLASS-429-253	c 44	N79-25481 *	US-PATENT-CLASS-435-34	c 51	N83-27569 *	US-PATENT-CLASS-48-116	c 44	N76-18642 *
US-PATENT-CLASS-429-253	c 27	N81-24257 *	US-PATENT-CLASS-435-34	c 51	N83-28849 *	US-PATENT-CLASS-48-116	c 44	N77-10636 *
US-PATENT-CLASS-429-253	c 23	N81-29160 *	US-PATENT-CLASS-435-38	c 51	N80-27067 *	US-PATENT-CLASS-48-117	c 44	N76-18642 *
US-PATENT-CLASS-429-253	c 25	N83-13188 *	US-PATENT-CLASS-435-38	c 51	N83-27569 *	US-PATENT-CLASS-48-117	c 44	N77-10636 *
US-PATENT-CLASS-429-254	c 44	N78-25530 *	US-PATENT-CLASS-435-38	c 51	N83-28849 *	US-PATENT-CLASS-48-117	c 28	N80-10374 *
US-PATENT-CLASS-429-254	c 44	N82-29708 *	US-PATENT-CLASS-435-39	c 51	N80-27067 *	US-PATENT-CLASS-48-197-R	c 25	N86-25428 *
US-PATENT-CLASS-429-254	c 44	N83-32176 *	US-PATENT-CLASS-435-39	c 35	N82-28604 *	US-PATENT-CLASS-48-197R	c 44	N76-29704 *
US-PATENT-CLASS-429-27	c 27	N81-24257 *	US-PATENT-CLASS-435-39	c 51	N83-27569 *	US-PATENT-CLASS-48-197R	c 44	N77-10636 *
US-PATENT-CLASS-429-27	c 23	N81-29160 *	US-PATENT-CLASS-435-39	c 51	N83-28849 *	US-PATENT-CLASS-48-197R	c 28	N91-14495 *
US-PATENT-CLASS-429-27	c 44	N86-25874 *	US-PATENT-CLASS-435-3	c 51	N80-27067 *	US-PATENT-CLASS-48-203	c 28	N91-14495 *
US-PATENT-CLASS-429-28	c 27	N81-24257 *	US-PATENT-CLASS-435-3	c 51	N83-27569 *	US-PATENT-CLASS-48-212	c 44	N77-10636 *
US-PATENT-CLASS-429-28	c 23	N81-29160 *	US-PATENT-CLASS-435-3	c 51	N83-28849 *	US-PATENT-CLASS-48-215	c 44	N76-29700 *
US-PATENT-CLASS-429-33	c 44	N79-17313 *	US-PATENT-CLASS-435-5	c 51	N81-28698 *	US-PATENT-CLASS-48-61	c 44	N77-10636 *
US-PATENT-CLASS-429-33	c 44	N82-29710 *	US-PATENT-CLASS-435-807	c 51	N83-28849 *	US-PATENT-CLASS-48-61	c 28	N80-10374 *
US-PATENT-CLASS-429-34	c 44	N77-14581 *	US-PATENT-CLASS-435-842	c 23	N85-35227 *	US-PATENT-CLASS-48-63	c 44	N76-18642 *
US-PATENT-CLASS-429-34	c 44	N83-27344 *	US-PATENT-CLASS-435-8	c 51	N83-27569 *	US-PATENT-CLASS-48-75	c 44	N76-18642 *
US-PATENT-CLASS-429-40	c 44	N82-29710 *	US-PATENT-CLASS-436-137	c 35	N90-22025 *	US-PATENT-CLASS-48-77	c 28	N91-14495 *
US-PATENT-CLASS-429-40	c 44	N83-27344 *	US-PATENT-CLASS-436-143	c 35	N90-22025 *	US-PATENT-CLASS-48-89	c 44	N82-16475 *
US-PATENT-CLASS-429-41	c 44	N79-10513 *	US-PATENT-CLASS-436-155	c 25	N86-19413 *	US-PATENT-CLASS-48-95	c 44	N76-18642 *
US-PATENT-CLASS-429-42	c 44	N79-10513 *	US-PATENT-CLASS-436-2	c 35	N85-29213 *	US-PATENT-CLASS-48-95	c 44	N76-29700 *
US-PATENT-CLASS-429-44	c 44	N84-28205 *	US-PATENT-CLASS-436-55	c 35	N90-22025 *	US-PATENT-CLASS-48-99	c 44	N82-16475 *
US-PATENT-CLASS-429-51	c 44	N86-19721 *	US-PATENT-CLASS-437-128	c 76	N88-14836 *	US-PATENT-CLASS-49-DIG.1	c 34	N78-25350 *
US-PATENT-CLASS-429-57	c 44	N86-25874 *	US-PATENT-CLASS-437-131	c 76	N88-14836 *	US-PATENT-CLASS-49-171	c 31	N81-19343 *
US-PATENT-CLASS-429-58	c 35	N85-21596 *	US-PATENT-CLASS-437-225	c 72	N91-14813 *	US-PATENT-CLASS-49-253	c 18	N90-19278 *
US-PATENT-CLASS-429-94	c 44	N81-24521 *	US-PATENT-CLASS-437-228	c 72	N91-14813 *	US-PATENT-CLASS-49-479	c 34	N78-25350 *
US-PATENT-CLASS-430-17	c 35	N82-11432 *	US-PATENT-CLASS-437-235	c 72	N91-14813 *	US-PATENT-CLASS-49-485	c 34	N78-25350 *
US-PATENT-CLASS-430-271	c 27	N81-25209 *	US-PATENT-CLASS-437-238	c 72	N91-14813 *	US-PATENT-CLASS-49-68	c 18	N74-22136 *

US-PATENT-CLASS-5-345	c 05	N70-33285 *	US-PATENT-CLASS-52-646	c 37	N88-29180 *	US-PATENT-CLASS-525-108	c 27	N86-27451 *
US-PATENT-CLASS-5-459	c 03	N84-33394 *	US-PATENT-CLASS-52-648	c 11	N72-25287 *	US-PATENT-CLASS-525-113	c 27	N85-34281 *
US-PATENT-CLASS-5-69	c 05	N72-11085 *	US-PATENT-CLASS-52-648	c 39	N76-31562 *	US-PATENT-CLASS-525-115	c 27	N86-27451 *
US-PATENT-CLASS-5-81-R	c 85	N87-21755 *	US-PATENT-CLASS-52-648	c 31	N81-25258 *	US-PATENT-CLASS-525-119	c 27	N85-34281 *
US-PATENT-CLASS-5-82	c 05	N71-23159 *	US-PATENT-CLASS-52-648	c 31	N86-19479 *	US-PATENT-CLASS-525-119	c 27	N86-27451 *
US-PATENT-CLASS-501-88	c 27	N88-29040 *	US-PATENT-CLASS-52-648	c 37	N86-25789 *	US-PATENT-CLASS-525-122	c 27	N86-27451 *
US-PATENT-CLASS-501-88	c 27	N90-21177 *	US-PATENT-CLASS-52-648	c 18	N88-28958 *	US-PATENT-CLASS-525-181	c 27	N83-28240 *
US-PATENT-CLASS-501-91	c 27	N88-29040 *	US-PATENT-CLASS-52-648	c 37	N88-29180 *	US-PATENT-CLASS-525-181	c 27	N85-21349 *
US-PATENT-CLASS-501-91	c 27	N90-21177 *	US-PATENT-CLASS-52-648	c 18	N89-28554 *	US-PATENT-CLASS-525-182	c 27	N85-21349 *
US-PATENT-CLASS-501-92	c 27	N88-29040 *	US-PATENT-CLASS-52-64	c 31	N73-32749 *	US-PATENT-CLASS-525-182	c 27	N87-22845 *
US-PATENT-CLASS-501-92	c 27	N90-21177 *	US-PATENT-CLASS-52-651	c 39	N76-31562 *	US-PATENT-CLASS-525-183	c 27	N83-28240 *
US-PATENT-CLASS-501-93	c 27	N88-29040 *	US-PATENT-CLASS-52-655	c 11	N72-25287 *	US-PATENT-CLASS-525-183	c 27	N85-21349 *
US-PATENT-CLASS-502-217	c 25	N90-23517 *	US-PATENT-CLASS-52-705	c 37	N76-19437 *	US-PATENT-CLASS-525-184	c 27	N83-28240 *
US-PATENT-CLASS-502-218	c 25	N90-23517 *	US-PATENT-CLASS-52-71	c 18	N75-27040 *	US-PATENT-CLASS-525-184	c 27	N85-21349 *
US-PATENT-CLASS-502-226	c 25	N90-23517 *	US-PATENT-CLASS-52-726	c 39	N76-31562 *	US-PATENT-CLASS-525-186	c 27	N85-34281 *
US-PATENT-CLASS-502-239	c 25	N90-23517 *	US-PATENT-CLASS-52-726	c 31	N81-25258 *	US-PATENT-CLASS-525-186	c 27	N86-20560 *
US-PATENT-CLASS-502-241	c 25	N90-23517 *	US-PATENT-CLASS-52-743	c 37	N81-14317 *	US-PATENT-CLASS-525-229	c 27	N85-34281 *
US-PATENT-CLASS-502-245	c 25	N90-23517 *	US-PATENT-CLASS-52-745	c 39	N76-31562 *	US-PATENT-CLASS-525-26	c 27	N85-29043 *
US-PATENT-CLASS-502-245	c 25	N90-23517 *	US-PATENT-CLASS-52-745	c 31	N81-27323 *	US-PATENT-CLASS-525-282	c 27	N84-14322 *
US-PATENT-CLASS-502-325	c 25	N90-20180 *	US-PATENT-CLASS-52-745	c 37	N85-30335 *	US-PATENT-CLASS-525-282	c 27	N87-15304 *
US-PATENT-CLASS-502-339	c 25	N90-20154 *	US-PATENT-CLASS-52-749	c 39	N76-31562 *	US-PATENT-CLASS-525-287	c 27	N84-14322 *
US-PATENT-CLASS-502-339	c 25	N90-20180 *	US-PATENT-CLASS-52-758F	c 37	N76-19437 *	US-PATENT-CLASS-525-326	c 27	N80-24438 *
US-PATENT-CLASS-502-344	c 25	N90-20180 *	US-PATENT-CLASS-52-806	c 24	N84-11214 *	US-PATENT-CLASS-525-336	c 27	N80-24438 *
US-PATENT-CLASS-502-352	c 25	N90-20154 *	US-PATENT-CLASS-52-808	c 24	N84-11214 *	US-PATENT-CLASS-525-340	c 27	N80-24438 *
US-PATENT-CLASS-502-38	c 25	N90-20154 *	US-PATENT-CLASS-52-80	c 18	N72-25540 *	US-PATENT-CLASS-525-36	c 27	N87-22848 *
US-PATENT-CLASS-502-53	c 25	N90-20154 *	US-PATENT-CLASS-52-80	c 18	N72-25541 *	US-PATENT-CLASS-525-374	c 27	N80-24438 *
US-PATENT-CLASS-51-170	c 15	N71-26134 *	US-PATENT-CLASS-52-80	c 31	N73-32749 *	US-PATENT-CLASS-525-375	c 27	N80-24438 *
US-PATENT-CLASS-51-216	c 15	N72-20444 *	US-PATENT-CLASS-52-814	c 18	N84-33450 *	US-PATENT-CLASS-525-384	c 28	N81-15119 *
US-PATENT-CLASS-51-225	c 37	N74-27905 *	US-PATENT-CLASS-52-814	c 31	N87-16918 *	US-PATENT-CLASS-525-389	c 27	N84-22750 *
US-PATENT-CLASS-51-234	c 37	N74-27905 *	US-PATENT-CLASS-52-814	c 31	N89-12786 *	US-PATENT-CLASS-525-397	c 27	N88-18725 *
US-PATENT-CLASS-51-235	c 37	N78-17383 *	US-PATENT-CLASS-52-81	c 37	N82-32732 *	US-PATENT-CLASS-525-417	c 27	N84-22745 *
US-PATENT-CLASS-51-235	c 76	N80-18951 *	US-PATENT-CLASS-52-821	c 31	N89-12786 *	US-PATENT-CLASS-525-420	c 27	N85-20123 *
US-PATENT-CLASS-51-277	c 74	N80-24149 *	US-PATENT-CLASS-521-124	c 25	N80-16116 *	US-PATENT-CLASS-525-423	c 24	N86-19380 *
US-PATENT-CLASS-51-281-R	c 31	N87-25491 *	US-PATENT-CLASS-521-125	c 25	N80-16116 *	US-PATENT-CLASS-525-425	c 33	N88-23941 *
US-PATENT-CLASS-51-283R	c 74	N80-24149 *	US-PATENT-CLASS-521-127	c 25	N80-16116 *	US-PATENT-CLASS-525-426	c 27	N80-26446 *
US-PATENT-CLASS-51-283	c 46	N74-23069 *	US-PATENT-CLASS-521-141	c 51	N84-28361 *	US-PATENT-CLASS-525-426	c 27	N84-22746 *
US-PATENT-CLASS-51-320	c 15	N72-20444 *	US-PATENT-CLASS-521-142	c 51	N84-28361 *	US-PATENT-CLASS-525-426	c 27	N87-28657 *
US-PATENT-CLASS-51-323	c 15	N72-20444 *	US-PATENT-CLASS-521-145	c 27	N90-16949 *	US-PATENT-CLASS-525-432	c 27	N86-19456 *
US-PATENT-CLASS-51-57	c 15	N71-22705 *	US-PATENT-CLASS-521-146	c 25	N80-23383 *	US-PATENT-CLASS-525-432	c 27	N87-28657 *
US-PATENT-CLASS-51-73R	c 37	N85-21650 *	US-PATENT-CLASS-521-149	c 51	N84-28361 *	US-PATENT-CLASS-525-436	c 27	N86-19456 *
US-PATENT-CLASS-51-97R	c 37	N74-27905 *	US-PATENT-CLASS-521-157	c 25	N80-16116 *	US-PATENT-CLASS-525-436	c 27	N87-28657 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25540 *	US-PATENT-CLASS-521-178	c 27	N90-16949 *	US-PATENT-CLASS-525-436	c 27	N91-15402 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25541 *	US-PATENT-CLASS-521-189	c 27	N90-16949 *	US-PATENT-CLASS-525-474	c 27	N83-28240 *
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US-PATENT-CLASS-60-267	c 33	N71-29053 *	US-PATENT-CLASS-60-39.36	c 28	N71-20330 *	US-PATENT-CLASS-604-114	c 52	N83-27577 *
US-PATENT-CLASS-60-267	c 33	N72-25911 *	US-PATENT-CLASS-60-39.36	c 28	N71-28915 *	US-PATENT-CLASS-604-151	c 52	N83-27577 *
US-PATENT-CLASS-60-267	c 33	N73-25952 *	US-PATENT-CLASS-60-39.46M	c 20	N82-18314 *	US-PATENT-CLASS-604-280	c 52	N83-21785 *
US-PATENT-CLASS-60-267	c 28	N73-32606 *	US-PATENT-CLASS-60-39.465	c 20	N86-26368 *	US-PATENT-CLASS-604-368	c 54	N84-11758 *
US-PATENT-CLASS-60-267	c 20	N76-14191 *	US-PATENT-CLASS-60-39.46	c 27	N71-15635 *	US-PATENT-CLASS-604-378	c 54	N84-11758 *
US-PATENT-CLASS-60-267	c 34	N79-13288 *	US-PATENT-CLASS-60-39.46	c 15	N74-27360 *	US-PATENT-CLASS-604-396	c 54	N84-11758 *
US-PATENT-CLASS-60-267	c 34	N79-13289 *	US-PATENT-CLASS-60-39.47	c 27	N71-16392 *	US-PATENT-CLASS-604-8	c 52	N83-21785 *
US-PATENT-CLASS-60-267	c 34	N80-24573 *	US-PATENT-CLASS-60-39.48	c 28	N70-38199 *	US-PATENT-CLASS-61-83	c 18	N74-22136 *
US-PATENT-CLASS-60-267	c 44	N81-24519 *	US-PATENT-CLASS-60-39.48	c 28	N70-39931 *	US-PATENT-CLASS-62-DIG.1	c 34	N84-22903 *
US-PATENT-CLASS-60-267	c 05	N81-26114 *	US-PATENT-CLASS-60-39.48	c 27	N71-28929 *	US-PATENT-CLASS-62-DIG.5	c 05	N81-26114 *
US-PATENT-CLASS-60-269	c 07	N83-33884 *	US-PATENT-CLASS-60-39.51R	c 25	N78-10224 *	US-PATENT-CLASS-62-100	c 34	N77-19353 *
US-PATENT-CLASS-60-26	c 21	N72-31637 *	US-PATENT-CLASS-60-39.52	c 07	N78-25089 *	US-PATENT-CLASS-62-100	c 28	N78-24365 *
US-PATENT-CLASS-60-26	c 03	N73-20040 *	US-PATENT-CLASS-60-39.65	c 28	N71-28915 *	US-PATENT-CLASS-62-121	c 34	N77-19353 *
US-PATENT-CLASS-60-271	c 28	N72-11708 *	US-PATENT-CLASS-60-39.65	c 23	N73-30665 *	US-PATENT-CLASS-62-128	c 35	N84-28018 *
US-PATENT-CLASS-60-271	c 28	N72-23810 *	US-PATENT-CLASS-60-39.65	c 34	N78-27357 *	US-PATENT-CLASS-62-129	c 31	N76-14284 *
US-PATENT-CLASS-60-271	c 07	N78-17055 *	US-PATENT-CLASS-60-39.66	c 15	N70-36411 *	US-PATENT-CLASS-62-12	c 28	N81-14103 *
US-PATENT-CLASS-60-271	c 37	N78-17384 *	US-PATENT-CLASS-60-39.66	c 23	N73-30665 *	US-PATENT-CLASS-62-148	c 44	N82-26776 *
US-PATENT-CLASS-60-271	c 07	N83-33884 *	US-PATENT-CLASS-60-39.66	c 07	N77-23106 *	US-PATENT-CLASS-62-15	c 06	N70-34946 *
US-PATENT-CLASS-60-275	c 35	N84-17555 *	US-PATENT-CLASS-60-39.66	c 37	N78-10467 *	US-PATENT-CLASS-62-176	c 05	N73-26071 *
US-PATENT-CLASS-60-291	c 31	N73-13898 *	US-PATENT-CLASS-60-39.66	c 37	N79-11403 *	US-PATENT-CLASS-62-18	c 28	N81-14103 *
US-PATENT-CLASS-60-300	c 28	N80-10374 *	US-PATENT-CLASS-60-39.69R	c 34	N78-27357 *	US-PATENT-CLASS-62-207	c 05	N73-26071 *
US-PATENT-CLASS-60-303	c 35	N84-17555 *	US-PATENT-CLASS-60-39.72	c 23	N73-30665 *	US-PATENT-CLASS-62-209	c 05	N73-26071 *
US-PATENT-CLASS-60-303	c 37	N84-33808 *	US-PATENT-CLASS-60-39.74A	c 15	N72-25455 *	US-PATENT-CLASS-62-217	c 31	N77-10229 *
US-PATENT-CLASS-60-311	c 35	N84-17555 *	US-PATENT-CLASS-60-39.74R	c 23	N73-30665 *	US-PATENT-CLASS-62-235.1	c 44	N82-26776 *
US-PATENT-CLASS-60-316	c 34	N76-18364 *	US-PATENT-CLASS-60-39.74R	c 20	N76-14190 *	US-PATENT-CLASS-62-238.3	c 44	N82-26776 *
US-PATENT-CLASS-60-35.3	c 28	N70-33265 *	US-PATENT-CLASS-60-39.74	c 28	N70-33241 *	US-PATENT-CLASS-62-239	c 44	N82-26776 *
US-PATENT-CLASS-60-35.3	c 28	N70-40367 *	US-PATENT-CLASS-60-39.74	c 28	N72-17843 *	US-PATENT-CLASS-62-244	c 44	N82-26776 *
US-PATENT-CLASS-60-35.54	c 28	N70-34294 *	US-PATENT-CLASS-60-39.74	c 20	N79-21125 *	US-PATENT-CLASS-62-259	c 05	N73-20137 *
US-PATENT-CLASS-60-35.54	c 28	N70-38645 *	US-PATENT-CLASS-60-39.82E	c 20	N78-24275 *	US-PATENT-CLASS-62-259	c 05	N73-26071 *
US-PATENT-CLASS-60-35.54	c 28	N71-29153 *	US-PATENT-CLASS-60-39.83	c 07	N84-33410 *	US-PATENT-CLASS-62-259	c 54	N78-32721 *
US-PATENT-CLASS-60-35.55	c 28	N70-34162 *	US-PATENT-CLASS-60-39.48	c 28	N72-11709 *	US-PATENT-CLASS-62-264	c 34	N84-22903 *
US-PATENT-CLASS-60-35.55	c 28	N70-38711 *	US-PATENT-CLASS-60-415	c 85	N87-21755 *	US-PATENT-CLASS-62-268	c 14	N71-20427 *
US-PATENT-CLASS-60-35.55	c 21	N71-15582 *	US-PATENT-CLASS-60-508	c 44	N79-18443 *	US-PATENT-CLASS-62-268	c 34	N79-20336 *
US-PATENT-CLASS-60-35.55	c 15	N71-28951 *	US-PATENT-CLASS-60-516	c 20	N75-24837 *	US-PATENT-CLASS-62-269	c 34	N77-19353 *
US-PATENT-CLASS-60-35.5	c 28	N70-33356 *	US-PATENT-CLASS-60-516	c 44	N82-24640 *	US-PATENT-CLASS-62-285	c 77	N75-20139 *
US-PATENT-CLASS-60-35.5	c 28	N70-34175 *	US-PATENT-CLASS-60-517	c 44	N76-29701 *	US-PATENT-CLASS-62-288	c 77	N75-20139 *
US-PATENT-CLASS-60-35.5	c 28	N70-36802 *	US-PATENT-CLASS-60-517	c 37	N81-25370 *	US-PATENT-CLASS-62-289	c 77	N75-20139 *
US-PATENT-CLASS-60-35.5	c 21	N70-36938 *	US-PATENT-CLASS-60-518	c 37	N81-14318 *	US-PATENT-CLASS-62-290	c 77	N75-20139 *
US-PATENT-CLASS-60-35.5	c 25	N70-36946 *	US-PATENT-CLASS-60-518	c 37	N81-17432 *	US-PATENT-CLASS-62-295	c 35	N83-32026 *
US-PATENT-CLASS-60-35.5	c 28	N70-37245 *	US-PATENT-CLASS-60-51	c 15	N71-27554 *	US-PATENT-CLASS-62-2	c 15	N71-15906 *
US-PATENT-CLASS-60-35.5	c 28	N70-37980 *	US-PATENT-CLASS-60-520	c 37	N80-31790 *	US-PATENT-CLASS-62-315	c 34	N77-19353 *
US-PATENT-CLASS-60-35.5	c 28	N71-14043 *	US-PATENT-CLASS-60-524	c 44	N81-17518 *	US-PATENT-CLASS-62-317	c 77	N75-20139 *
US-PATENT-CLASS-60-35.5	c 28	N71-15661 *	US-PATENT-CLASS-60-525	c 37	N81-25370 *	US-PATENT-CLASS-62-376	c 31	N78-17237 *
US-PATENT-CLASS-60-35.60	c 28	N71-15659 *	US-PATENT-CLASS-60-527	c 44	N74-33379 *	US-PATENT-CLASS-62-376	c 34	N79-20336 *
US-PATENT-CLASS-60-35.6	c 28	N70-33284 *	US-PATENT-CLASS-60-527	c 37	N77-12402 *	US-PATENT-CLASS-62-383	c 33	N82-24419 *
US-PATENT-CLASS-60-35.6	c 28	N70-33331 *	US-PATENT-CLASS-60-527	c 37	N77-19458 *	US-PATENT-CLASS-62-384	c 23	N71-24725 *
US-PATENT-CLASS-60-35.6	c 28	N70-33374 *	US-PATENT-CLASS-60-527	c 37	N78-31426 *	US-PATENT-CLASS-62-384	c 31	N87-21159 *
US-PATENT-CLASS-60-35.6	c 28	N70-33375 *	US-PATENT-CLASS-60-527	c 37	N86-19604 *	US-PATENT-CLASS-62-3	c 20	N75-24837 *
US-PATENT-CLASS-60-35.6	c 28	N70-34860 *	US-PATENT-CLASS-60-527	c 35	N88-29151 *	US-PATENT-CLASS-62-3	c 34	N78-17335 *
US-PATENT-CLASS-60-35.6	c 28	N70-35381 *	US-PATENT-CLASS-60-528	c 37	N86-19604 *	US-PATENT-CLASS-62-3	c 34	N83-29625 *
US-PATENT-CLASS-60-35.6	c 27	N70-35534 *	US-PATENT-CLASS-60-530	c 20	N75-24837 *	US-PATENT-CLASS-62-3	c 31	N85-29082 *
US-PATENT-CLASS-60-35.6	c 15	N70-36535 *	US-PATENT-CLASS-60-53	c 37	N77-22479 *	US-PATENT-CLASS-62-40	c 15	N71-24044 *
US-PATENT-CLASS-60-35.6	c 28	N70-36806 *	US-PATENT-CLASS-60-54.5	c 15	N71-10658 *	US-PATENT-CLASS-62-40	c 28	N81-14103 *
US-PATENT-CLASS-60-35.6	c 28	N70-36910 *	US-PATENT-CLASS-60-560	c 35	N78-10428 *	US-PATENT-CLASS-62-45	c 15	N70-33323 *
US-PATENT-CLASS-60-35.6	c 28	N70-38249 *	US-PATENT-CLASS-60-572	c 44	N79-18443 *	US-PATENT-CLASS-62-45	c 31	N70-41871 *
US-PATENT-CLASS-60-35.6	c 28	N70-38504 *	US-PATENT-CLASS-60-574	c 35	N78-10428 *	US-PATENT-CLASS-62-45	c 33	N71-25351 *
US-PATENT-CLASS-60-35.6	c 28	N70-38505 *	US-PATENT-CLASS-60-606	c 28	N80-10374 *	US-PATENT-CLASS-62-45	c 33	N71-28892 *
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US-PATENT-CLASS-60-35.6	c 28	N70-39899 *	US-PATENT-CLASS-60-632	c 20	N80-18097 *	US-PATENT-CLASS-62-45	c 35	N74-15093 *
US-PATENT-CLASS-60-35.6	c 33	N71-15623 *	US-PATENT-CLASS-60-634	c 37	N87-23983 *	US-PATENT-CLASS-62-45	c 31	N89-29578 *
US-PATENT-CLASS-60-35.6	c 27	N71-15634 *	US-PATENT-CLASS-60-638	c 37	N87-23983 *	US-PATENT-CLASS-62-467R	c 34	N84-22903 *
US-PATENT-CLASS-60-35.6	c 31	N71-15637 *	US-PATENT-CLASS-60-641.12	c 44	N84-23018 *	US-PATENT-CLASS-62-467	c 33	N70-37979 *
US-PATENT-CLASS-60-35.6	c 31	N71-15647 *	US-PATENT-CLASS-60-641.14	c 44	N82-24640 *	US-PATENT-CLASS-62-467	c 33	N71-17897 *
US-PATENT-CLASS-60-35.6	c 28	N71-15660 *	US-PATENT-CLASS-60-641	c 44	N75-32581 *	US-PATENT-CLASS-62-467	c 05	N72-11084 *
US-PATENT-CLASS-60-35.6	c 14	N71-27186 *	US-PATENT-CLASS-60-641	c 44	N77-32582 *	US-PATENT-CLASS-62-467	c 33	N72-25911 *
US-PATENT-CLASS-60-36	c 15	N72-33477 *	US-PATENT-CLASS-60-641	c 44	N78-17460 *	US-PATENT-CLASS-62-467	c 33	N73-25952 *
US-PATENT-CLASS-60-37	c 15	N73-13467 *	US-PATENT-CLASS-60-641	c 44	N78-32542 *	US-PATENT-CLASS-62-467	c 20	N75-24837 *
US-PATENT-CLASS-60-39.02	c 07	N86-20389 *	US-PATENT-CLASS-60-641	c 44	N79-18443 *	US-PATENT-CLASS-62-467	c 31	N88-14223 *
US-PATENT-CLASS-60-39.03	c 07	N77-23106 *	US-PATENT-CLASS-60-641	c 44	N81-17518 *	US-PATENT-CLASS-62-467	c 31	N89-12785 *
US-PATENT-CLASS-60-39.03	c 07	N80-18039 *	US-PATENT-CLASS-60-645	c 34	N79-20335 *	US-PATENT-CLASS-62-467	c 31	N89-14351 *
US-PATENT-CLASS-60-39.06	c 07	N80-26298 *	US-PATENT-CLASS-60-649	c 34	N79-20335 *	US-PATENT-CLASS-62-467	c 31	N90-21215 *
US-PATENT-CLASS-60-39.06	c 07	N81-29129 *	US-PATENT-CLASS-60-659	c 44	N75-32581 *	US-PATENT-CLASS-62-475	c 23	N72-25619 *
US-PATENT-CLASS-60-39.07	c 44	N78-32539 *	US-PATENT-CLASS-60-659	c 44	N76-31667 *	US-PATENT-CLASS-62-476	c 44	N82-26776 *
US-PATENT-CLASS-60-39.07	c 07	N82-32366 *	US-PATENT-CLASS-60-671	c 44	N78-32542 *	US-PATENT-CLASS-62-47	c 28	N81-14103 *
US-PATENT-CLASS-60-39.07	c 07	N83-36029 *	US-PATENT-CLASS-60-698	c 44	N84-23018 *	US-PATENT-CLASS-62-48	c 28	N78-24365 *
US-PATENT-CLASS-60-39.07	c 07	N86-20389 *	US-PATENT-CLASS-60-716	c 44	N84-23018 *	US-PATENT-CLASS-62-48	c 31	N83-31897 *
US-PATENT-CLASS-60-39.12	c 28	N91-14495 *	US-PATENT-CLASS-60-721	c 71	N79-20827 *	US-PATENT-CLASS-62-48	c 31	N87-21159 *
US-PATENT-CLASS-60-39.14	c 44	N78-32539 *	US-PATENT-CLASS-60-721	c 71	N83-32515 *	US-PATENT-CLASS-62-48	c 31	N88-14223 *
US-PATENT-CLASS-60-39.14	c 07	N79-10057 *	US-PATENT-CLASS-60-721	c 71	N83-32516 *	US-PATENT-CLASS-62-48	c 31	N89-29578 *
US-PATENT-CLASS-60-39.182	c 28	N91-14495 *	US-PATENT-CLASS-60-721	c 71	N84-23233 *	US-PATENT-CLASS-62-49	c 31	N76-14284 *
US-PATENT-CLASS-60-39.23	c 20	N76-14190 *	US-PATENT-CLASS-60-726	c 07	N81-29129 *	US-PATENT-CLASS-62-4	c 44	N77-32581 *
US-PATENT-CLASS-60-39.23	c 07	N85-35195 *	US-PATENT-CLASS-60-726	c 07	N82-32366 *	US-PATENT-CLASS-62-4	c 44	N78-17460 *
US-PATENT-CLASS-60-39.24	c 07	N81-19115 *	US-PATENT-CLASS-60-730	c 05	N81-26114 *	US-PATENT-CLASS-62-50	c 15	N70-34247 *
US-PATENT-CLASS-60-39.27	c 07	N80-18039 *	US-PATENT-CLASS-60-730	c 37	N84-22958 *	US-PATENT-CLASS-62-50	c 35	N78-12390 *
US-PATENT-CLASS-60-39.28R	c 28	N73-19793 *	US-PATENT-CLASS-60-730	c 25	N90-11824 *	US-PATENT-CLASS-62-514 R	c 35	N83-32026 *
US-PATENT-CLASS-60-39.28R	c 07	N77-23106 *	US-PATENT-CLASS-60-732	c 25	N90-11824 *	US-PATENT-CLASS-62-514-JT	c 31	N89-14351 *
US-PATENT-CLASS-60-39.28R	c 37	N78-10467 *	US-PATENT-CLASS-60-733	c 07	N80-26298 *	US-PATENT-CLASS-62-514-R	c 31	N87-21159 *
US-PATENT-CLASS-60-39.28R	c 37	N78-24545 *	US-PATENT-CLASS-60-736	c 37	N84-22958 *	US-PATENT-CLASS-62-514-R	c 37	N87-32982 *
US-PATENT-CLASS-60-39.28R	c 37	N79-11403 *	US-PATENT-CLASS-60-736	c 07	N86-20389 *	US-PATENT-CLASS-62-514-R	c 31	N89-12785 *
US-PATENT-CLASS-60-39.29	c 20	N76-14190 *	US-PATENT-CLASS-60-737	c 07	N81-29129 *	US-PATENT-CLASS-62-514JT	c 31	N77-10229 *
US-PATENT-CLASS-60-39.29	c 35	N76-14431 *	US-PATENT-CLASS-60-746	c 07	N80-26298 *	US-PATENT-CLASS-62-514R	c 35	N78-12390 *
US-PATENT-CLASS-60-39.29	c 07	N82-32366 *	US-PATENT-CLASS-60-746	c 20	N87-14420 *	US-PATENT-CLASS-62-514R	c 31	N78-17237 *
US-PATENT-CLASS-60-39.29	c 07	N84-33410 *	US-PATENT-CLASS-60-748	c 07	N85-35195 *	US-PATENT-CLASS-62-514R	c 31	N78-25256 *
US-PATENT-CLASS-60-39.31	c 07	N78-18066 *	US-PATENT-CLASS-60-757	c 07	N84-24577 *	US-PATENT-CLASS-62-514R	c 51	N79-10694 *

US-PATENT-CLASS-62-514R	c 31	N79-17029 *	US-PATENT-CLASS-72-453	c 37	N76-18454 *	US-PATENT-CLASS-73-147	c 09	N71-20816 *
US-PATENT-CLASS-62-514R	c 34	N79-20336 *	US-PATENT-CLASS-72-467	c 15	N71-23817 *	US-PATENT-CLASS-73-147	c 11	N71-21481 *
US-PATENT-CLASS-62-514R	c 35	N81-14287 *	US-PATENT-CLASS-72-46	c 24	N75-33181 *	US-PATENT-CLASS-73-147	c 11	N71-23030 *
US-PATENT-CLASS-62-514R	c 31	N83-31897 *	US-PATENT-CLASS-72-470	c 37	N79-28550 *	US-PATENT-CLASS-73-147	c 15	N71-27006 *
US-PATENT-CLASS-62-514R	c 34	N83-34221 *	US-PATENT-CLASS-72-476	c 15	N73-13463 *	US-PATENT-CLASS-73-147	c 15	N71-28740 *
US-PATENT-CLASS-62-514R	c 31	N88-14223 *	US-PATENT-CLASS-72-53	c 15	N71-18616 *	US-PATENT-CLASS-73-147	c 11	N71-33612 *
US-PATENT-CLASS-62-514	c 23	N71-26654 *	US-PATENT-CLASS-72-53	c 15	N73-32360 *	US-PATENT-CLASS-73-147	c 11	N72-17183 *
US-PATENT-CLASS-62-51	c 15	N72-17453 *	US-PATENT-CLASS-72-54	c 37	N76-14461 *	US-PATENT-CLASS-73-147	c 14	N72-21407 *
US-PATENT-CLASS-62-55.5	c 11	N71-24964 *	US-PATENT-CLASS-72-56	c 15	N70-34249 *	US-PATENT-CLASS-73-147	c 11	N72-22246 *
US-PATENT-CLASS-62-55.5	c 15	N72-22484 *	US-PATENT-CLASS-72-56	c 15	N71-24833 *	US-PATENT-CLASS-73-147	c 11	N73-12264 *
US-PATENT-CLASS-62-55	c 15	N70-38020 *	US-PATENT-CLASS-72-56	c 15	N71-24865 *	US-PATENT-CLASS-73-147	c 14	N73-13415 *
US-PATENT-CLASS-62-55	c 34	N77-30399 *	US-PATENT-CLASS-72-60	c 15	N71-26148 *	US-PATENT-CLASS-73-147	c 12	N73-25262 *
US-PATENT-CLASS-62-56	c 05	N72-11084 *	US-PATENT-CLASS-72-61	c 15	N71-24836 *	US-PATENT-CLASS-73-147	c 12	N73-28144 *
US-PATENT-CLASS-62-62	c 34	N83-34221 *	US-PATENT-CLASS-72-61	c 15	N71-26346 *	US-PATENT-CLASS-73-147	c 09	N74-17955 *
US-PATENT-CLASS-62-6	c 15	N69-23190 *	US-PATENT-CLASS-72-63	c 20	N75-18310 *	US-PATENT-CLASS-73-147	c 34	N74-27730 *
US-PATENT-CLASS-62-6	c 23	N71-15467 *	US-PATENT-CLASS-72-63	c 37	N76-14461 *	US-PATENT-CLASS-73-147	c 09	N75-12969 *
US-PATENT-CLASS-62-6	c 15	N71-23025 *	US-PATENT-CLASS-72-750	c 35	N88-24927 *	US-PATENT-CLASS-73-147	c 09	N76-23273 *
US-PATENT-CLASS-62-6	c 23	N72-25619 *	US-PATENT-CLASS-72-83	c 15	N71-22723 *	US-PATENT-CLASS-73-147	c 34	N76-27517 *
US-PATENT-CLASS-62-6	c 37	N76-29590 *	US-PATENT-CLASS-73-DIG.11	c 35	N78-18390 *	US-PATENT-CLASS-73-147	c 09	N77-10071 *
US-PATENT-CLASS-62-6	c 44	N76-29701 *	US-PATENT-CLASS-73-1-DV	c 71	N86-21276 *	US-PATENT-CLASS-73-147	c 09	N78-31129 *
US-PATENT-CLASS-62-6	c 44	N83-28574 *	US-PATENT-CLASS-73-1-DV	c 71	N87-21653 *	US-PATENT-CLASS-73-147	c 35	N79-14347 *
US-PATENT-CLASS-62-6	c 31	N85-21404 *	US-PATENT-CLASS-73-1B	c 35	N76-24523 *	US-PATENT-CLASS-73-147	c 09	N79-21083 *
US-PATENT-CLASS-62-78	c 51	N79-10694 *	US-PATENT-CLASS-73-1B	c 35	N84-28019 *	US-PATENT-CLASS-73-147	c 02	N80-20224 *
US-PATENT-CLASS-62-7	c 15	N73-12486 *	US-PATENT-CLASS-73-1DV	c 14	N73-27379 *	US-PATENT-CLASS-73-147	c 06	N81-17057 *
US-PATENT-CLASS-62-80	c 23	N72-25619 *	US-PATENT-CLASS-73-1F	c 35	N74-21019 *	US-PATENT-CLASS-73-147	c 09	N82-11088 *
US-PATENT-CLASS-62-85	c 23	N72-25619 *	US-PATENT-CLASS-73-1R	c 14	N71-29134 *	US-PATENT-CLASS-73-147	c 09	N82-23254 *
US-PATENT-CLASS-62-89	c 05	N73-26071 *	US-PATENT-CLASS-73-1R	c 35	N75-15932 *	US-PATENT-CLASS-73-147	c 71	N83-17235 *
US-PATENT-CLASS-62-93	c 15	N69-21465 *	US-PATENT-CLASS-73-1R	c 35	N76-15432 *	US-PATENT-CLASS-73-147	c 44	N83-21503 *
US-PATENT-CLASS-62-93	c 03	N72-28025 *	US-PATENT-CLASS-73-100	c 15	N70-41993 *	US-PATENT-CLASS-73-147	c 44	N83-21504 *
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US-PATENT-CLASS-73-198	c 14	N72-17327 *	US-PATENT-CLASS-73-40.7	c 35	N85-29213 *	US-PATENT-CLASS-73-521	c 14	N72-25410 *
US-PATENT-CLASS-73-1	c 10	N71-13545 *	US-PATENT-CLASS-73-400	c 14	N71-23093 *	US-PATENT-CLASS-73-521	c 35	N86-32695 *
US-PATENT-CLASS-73-1	c 09	N71-22988 *	US-PATENT-CLASS-73-400	c 14	N71-24232 *	US-PATENT-CLASS-73-557	c 35	N75-19614 *
US-PATENT-CLASS-73-204	c 12	N71-17569 *	US-PATENT-CLASS-73-400	c 35	N79-33450 *	US-PATENT-CLASS-73-557	c 07	N76-27232 *
US-PATENT-CLASS-73-204	c 35	N76-24524 *	US-PATENT-CLASS-73-401	c 14	N70-34820 *	US-PATENT-CLASS-73-56	c 35	N80-18357 *
US-PATENT-CLASS-73-204	c 35	N77-20400 *	US-PATENT-CLASS-73-40	c 35	N75-15931 *	US-PATENT-CLASS-73-571	c 71	N90-12289 *
US-PATENT-CLASS-73-204	c 52	N83-27577 *	US-PATENT-CLASS-73-40	c 35	N80-18358 *	US-PATENT-CLASS-73-579	c 39	N78-15512 *
US-PATENT-CLASS-73-205L	c 02	N80-20224 *	US-PATENT-CLASS-73-419	c 14	N71-22752 *	US-PATENT-CLASS-73-579	c 35	N79-10390 *
US-PATENT-CLASS-73-212	c 14	N70-36824 *	US-PATENT-CLASS-73-420	c 35	N74-13132 *	US-PATENT-CLASS-73-579	c 33	N83-16626 *
US-PATENT-CLASS-73-212	c 14	N73-13415 *	US-PATENT-CLASS-73-421.5R	c 13	N72-25323 *	US-PATENT-CLASS-73-579	c 27	N85-20126 *
US-PATENT-CLASS-73-212	c 35	N76-14429 *	US-PATENT-CLASS-73-421.5R	c 14	N73-30395 *	US-PATENT-CLASS-73-57	c 14	N71-17584 *
US-PATENT-CLASS-73-212	c 06	N80-18036 *	US-PATENT-CLASS-73-421.5R	c 52	N74-20728 *	US-PATENT-CLASS-73-57	c 14	N73-14429 *
US-PATENT-CLASS-73-221	c 35	N75-19611 *	US-PATENT-CLASS-73-421.5R	c 35	N76-18401 *	US-PATENT-CLASS-73-582	c 27	N85-20126 *
US-PATENT-CLASS-73-228	c 34	N77-27345 *	US-PATENT-CLASS-73-421.5R	c 35	N77-32456 *	US-PATENT-CLASS-73-583	c 71	N87-21652 *
US-PATENT-CLASS-73-23.1	c 06	N69-39936 *	US-PATENT-CLASS-73-421.5	c 14	N73-12444 *	US-PATENT-CLASS-73-587	c 35	N88-23966 *
US-PATENT-CLASS-73-23.1	c 06	N72-17094 *	US-PATENT-CLASS-73-421R	c 54	N76-14804 *	US-PATENT-CLASS-73-588	c 37	N84-33807 *
US-PATENT-CLASS-73-23.1	c 06	N72-25146 *	US-PATENT-CLASS-73-422GC	c 13	N72-25323 *	US-PATENT-CLASS-73-588	c 27	N85-20126 *
US-PATENT-CLASS-73-23.1	c 25	N76-18245 *	US-PATENT-CLASS-73-422TC	c 13	N72-25323 *	US-PATENT-CLASS-73-589	c 35	N79-10390 *
US-PATENT-CLASS-73-23.1	c 23	N77-17161 *	US-PATENT-CLASS-73-422	c 14	N71-20435 *	US-PATENT-CLASS-73-589	c 35	N84-22933 *
US-PATENT-CLASS-73-23	c 14	N71-10774 *	US-PATENT-CLASS-73-425.2	c 91	N76-30131 *	US-PATENT-CLASS-73-589	c 71	N87-21652 *
US-PATENT-CLASS-73-23	c 05	N71-11202 *	US-PATENT-CLASS-73-425.4R	c 35	N78-27384 *	US-PATENT-CLASS-73-594	c 35	N84-22933 *
US-PATENT-CLASS-73-23	c 52	N74-20728 *	US-PATENT-CLASS-73-425.6	c 15	N72-21465 *	US-PATENT-CLASS-73-597	c 33	N83-16626 *
US-PATENT-CLASS-73-23	c 35	N75-29380 *	US-PATENT-CLASS-73-432.1	c 34	N90-19534 *	US-PATENT-CLASS-73-597	c 52	N83-27578 *
US-PATENT-CLASS-73-23	c 25	N78-15210 *	US-PATENT-CLASS-73-432PS	c 76	N75-12810 *	US-PATENT-CLASS-73-597	c 32	N87-14559 *
US-PATENT-CLASS-73-23	c 35	N78-19465 *	US-PATENT-CLASS-73-432PS	c 35	N75-33367 *	US-PATENT-CLASS-73-599	c 71	N87-21652 *
US-PATENT-CLASS-73-24	c 06	N69-39733 *	US-PATENT-CLASS-73-432PS	c 35	N78-18390 *	US-PATENT-CLASS-73-599	c 71	N87-21653 *
US-PATENT-CLASS-73-28	c 14	N73-27376 *	US-PATENT-CLASS-73-432R	c 33	N73-27796 *	US-PATENT-CLASS-73-603	c 38	N78-32447 *
US-PATENT-CLASS-73-28	c 14	N73-30395 *	US-PATENT-CLASS-73-432R	c 14	N73-28487 *	US-PATENT-CLASS-73-60	c 14	N73-14429 *
US-PATENT-CLASS-73-28	c 35	N76-18401 *	US-PATENT-CLASS-73-432R	c 91	N76-30131 *	US-PATENT-CLASS-73-61.1C	c 23	N77-17161 *
US-PATENT-CLASS-73-28	c 35	N78-18390 *	US-PATENT-CLASS-73-432R	c 35	N77-19385 *	US-PATENT-CLASS-73-61R	c 35	N78-27384 *
US-PATENT-CLASS-73-290-R	c 35	N88-29150 *	US-PATENT-CLASS-73-432R	c 35	N78-18390 *	US-PATENT-CLASS-73-615	c 32	N87-14559 *
US-PATENT-CLASS-73-290-V	c 35	N89-14407 *	US-PATENT-CLASS-73-432R	c 15	N84-16231 *	US-PATENT-CLASS-73-61	c 14	N71-26199 *
US-PATENT-CLASS-73-290B	c 14	N72-11363 *	US-PATENT-CLASS-73-432SD	c 11	N72-27262 *	US-PATENT-CLASS-73-620	c 35	N84-22928 *
US-PATENT-CLASS-73-290	c 14	N71-10500 *	US-PATENT-CLASS-73-432SD	c 11	N73-20267 *	US-PATENT-CLASS-73-626	c 52	N79-26771 *
US-PATENT-CLASS-73-290	c 14	N71-21007 *	US-PATENT-CLASS-73-432SD	c 35	N77-18417 *	US-PATENT-CLASS-73-629	c 33	N83-16626 *
US-PATENT-CLASS-73-295	c 23	N71-17802 *	US-PATENT-CLASS-73-432T	c 74	N84-11921 *	US-PATENT-CLASS-73-630	c 39	N78-15512 *
US-PATENT-CLASS-73-295	c 31	N76-14284 *	US-PATENT-CLASS-73-432	c 11	N70-34786 *	US-PATENT-CLASS-73-632	c 38	N79-14398 *
US-PATENT-CLASS-73-29	c 14	N71-17701 *	US-PATENT-CLASS-73-432	c 11	N70-36675 *	US-PATENT-CLASS-73-633	c 52	N79-14751 *
US-PATENT-CLASS-73-29	c 14	N71-20741 *	US-PATENT-CLASS-73-432	c 05	N70-42000 *	US-PATENT-CLASS-73-633	c 35	N84-22928 *
US-PATENT-CLASS-73-301	c 12	N71-26387 *	US-PATENT-CLASS-73-432	c 31	N71-16221 *	US-PATENT-CLASS-73-64.4	c 34	N83-31993 *
US-PATENT-CLASS-73-304-R	c 35	N88-29150 *	US-PATENT-CLASS-73-432	c 27	N71-16223 *	US-PATENT-CLASS-73-641	c 38	N79-14398 *
US-PATENT-CLASS-73-304C	c 14	N71-29134 *	US-PATENT-CLASS-73-432	c 30	N71-17788 *	US-PATENT-CLASS-73-644	c 38	N79-14398 *

US-PATENT-CLASS-73-644	c 52	N79-14751 *	US-PATENT-CLASS-73-861	c 34	N81-26402 *	US-PATENT-CLASS-74-469	c 15	N72-28495 *
US-PATENT-CLASS-73-646	c 71	N78-14867 *	US-PATENT-CLASS-73-862.01	c 35	N86-19581 *	US-PATENT-CLASS-74-471XY	c 54	N75-27760 *
US-PATENT-CLASS-73-646	c 35	N84-12445 *	US-PATENT-CLASS-73-862.04	c 35	N86-32696 *	US-PATENT-CLASS-74-471	c 05	N70-41581 *
US-PATENT-CLASS-73-647	c 32	N79-24203 *	US-PATENT-CLASS-73-862.08	c 54	N82-26987 *	US-PATENT-CLASS-74-471	c 03	N70-42073 *
US-PATENT-CLASS-73-655	c 35	N80-14371 *	US-PATENT-CLASS-73-862.33	c 35	N91-17350 *	US-PATENT-CLASS-74-471	c 15	N71-20740 *
US-PATENT-CLASS-73-657	c 35	N85-30282 *	US-PATENT-CLASS-73-862.36	c 35	N91-17350 *	US-PATENT-CLASS-74-479	c 08	N82-24205 *
US-PATENT-CLASS-73-658	c 35	N84-12445 *	US-PATENT-CLASS-73-862.54	c 37	N83-36482 *	US-PATENT-CLASS-74-479	c 37	N91-14616 *
US-PATENT-CLASS-73-658	c 37	N91-14607 *	US-PATENT-CLASS-73-862.54	c 35	N85-20294 *	US-PATENT-CLASS-74-480R	c 05	N75-12930 *
US-PATENT-CLASS-73-65	c 14	N71-22992 *	US-PATENT-CLASS-73-862.54	c 35	N86-19581 *	US-PATENT-CLASS-74-480R	c 08	N82-24205 *
US-PATENT-CLASS-73-661	c 35	N80-14371 *	US-PATENT-CLASS-73-862.61	c 35	N86-32696 *	US-PATENT-CLASS-74-5.12	c 31	N71-26537 *
US-PATENT-CLASS-73-67.1	c 35	N75-12271 *	US-PATENT-CLASS-73-862.61	c 35	N90-17117 *	US-PATENT-CLASS-74-5.22	c 21	N73-13644 *
US-PATENT-CLASS-73-67.2	c 11	N69-21540 *	US-PATENT-CLASS-73-862.65	c 35	N84-28015 *	US-PATENT-CLASS-74-5.34	c 04	N76-26175 *
US-PATENT-CLASS-73-67.2	c 15	N71-18132 *	US-PATENT-CLASS-73-863.11	c 35	N83-29650 *	US-PATENT-CLASS-74-5.34	c 06	N83-33882 *
US-PATENT-CLASS-73-67.2	c 14	N72-22440 *	US-PATENT-CLASS-73-863.11	c 37	N85-29286 *	US-PATENT-CLASS-74-5.47	c 21	N71-23289 *
US-PATENT-CLASS-73-67.2	c 35	N78-17358 *	US-PATENT-CLASS-73-863.21	c 35	N86-26595 *	US-PATENT-CLASS-74-5.5	c 35	N74-28097 *
US-PATENT-CLASS-73-67.3	c 32	N73-26910 *	US-PATENT-CLASS-73-863.31	c 45	N83-25217 *	US-PATENT-CLASS-74-5.5	c 37	N84-28082 *
US-PATENT-CLASS-73-67.5R	c 38	N74-15395 *	US-PATENT-CLASS-73-863.72	c 35	N86-26595 *	US-PATENT-CLASS-74-5.6D	c 33	N85-29142 *
US-PATENT-CLASS-73-67.7	c 39	N77-28511 *	US-PATENT-CLASS-73-863.83	c 35	N86-26595 *	US-PATENT-CLASS-74-5.6	c 35	N74-15094 *
US-PATENT-CLASS-73-67.8S	c 35	N74-10415 *	US-PATENT-CLASS-73-863.86	c 45	N83-25217 *	US-PATENT-CLASS-74-5.7	c 35	N74-18323 *
US-PATENT-CLASS-73-67.8S	c 38	N74-15130 *	US-PATENT-CLASS-73-864.34	c 35	N85-29213 *	US-PATENT-CLASS-74-5.7	c 15	N76-14158 *
US-PATENT-CLASS-73-67.9	c 52	N74-20726 *	US-PATENT-CLASS-73-864.41	c 35	N86-26595 *	US-PATENT-CLASS-74-5F	c 15	N73-12488 *
US-PATENT-CLASS-73-683.31	c 35	N81-29407 *	US-PATENT-CLASS-73-864.52	c 35	N84-28018 *	US-PATENT-CLASS-74-501R	c 15	N72-22485 *
US-PATENT-CLASS-73-684.52	c 35	N81-29407 *	US-PATENT-CLASS-73-864.63	c 35	N85-29213 *	US-PATENT-CLASS-74-51SE	c 54	N78-17676 *
US-PATENT-CLASS-73-69	c 71	N74-31148 *	US-PATENT-CLASS-73-864.81	c 45	N83-25217 *	US-PATENT-CLASS-74-519	c 03	N70-41954 *
US-PATENT-CLASS-73-70.2	c 14	N71-10616 *	US-PATENT-CLASS-73-86	c 37	N85-29286 *	US-PATENT-CLASS-74-519	c 05	N81-19087 *
US-PATENT-CLASS-73-705	c 36	N85-21639 *	US-PATENT-CLASS-73-86	c 14	N69-39975 *	US-PATENT-CLASS-74-572	c 07	N78-33101 *
US-PATENT-CLASS-73-708	c 34	N85-21568 *	US-PATENT-CLASS-73-86	c 33	N71-21586 *	US-PATENT-CLASS-74-572	c 37	N79-10422 *
US-PATENT-CLASS-73-71.2	c 14	N70-34794 *	US-PATENT-CLASS-73-86	c 33	N73-27796 *	US-PATENT-CLASS-74-572	c 44	N79-14527 *
US-PATENT-CLASS-73-71.3	c 35	N74-15146 *	US-PATENT-CLASS-73-86	c 34	N74-15652 *	US-PATENT-CLASS-74-572	c 24	N81-29163 *
US-PATENT-CLASS-73-71.4	c 32	N71-16428 *	US-PATENT-CLASS-73-88.5R	c 15	N72-17452 *	US-PATENT-CLASS-74-572	c 35	N89-15379 *
US-PATENT-CLASS-73-71.4	c 32	N71-26681 *	US-PATENT-CLASS-73-88.5R	c 32	N73-26910 *	US-PATENT-CLASS-74-573R	c 37	N84-28082 *
US-PATENT-CLASS-73-71.5R	c 71	N74-31148 *	US-PATENT-CLASS-73-88.5R	c 52	N74-27864 *	US-PATENT-CLASS-74-586	c 37	N79-14382 *
US-PATENT-CLASS-73-71.5U	c 38	N74-15395 *	US-PATENT-CLASS-73-88.5SD	c 35	N76-14430 *	US-PATENT-CLASS-74-58	c 35	N84-22928 *
US-PATENT-CLASS-73-71.6	c 14	N71-27185 *	US-PATENT-CLASS-73-88.5	c 33	N76-19338 *	US-PATENT-CLASS-74-594.6	c 37	N74-18127 *
US-PATENT-CLASS-73-71.6	c 14	N72-27412 *	US-PATENT-CLASS-73-88.5	c 14	N70-34705 *	US-PATENT-CLASS-74-594.7	c 37	N74-18127 *
US-PATENT-CLASS-73-71.6	c 14	N73-13416 *	US-PATENT-CLASS-73-88.5	c 14	N70-34799 *	US-PATENT-CLASS-74-63	c 15	N71-17692 *
US-PATENT-CLASS-73-71.6	c 14	N73-19421 *	US-PATENT-CLASS-73-88.5	c 14	N71-17656 *	US-PATENT-CLASS-74-661	c 37	N80-32716 *
US-PATENT-CLASS-73-71.6	c 35	N77-18417 *	US-PATENT-CLASS-73-88.5	c 14	N71-21091 *	US-PATENT-CLASS-74-665B	c 37	N76-15457 *
US-PATENT-CLASS-73-714	c 35	N79-14347 *	US-PATENT-CLASS-73-88.5	c 14	N71-23087 *	US-PATENT-CLASS-74-665C	c 37	N80-32716 *
US-PATENT-CLASS-73-714	c 34	N79-24285 *	US-PATENT-CLASS-73-88.5	c 14	N71-24233 *	US-PATENT-CLASS-74-665G	c 37	N91-14616 *
US-PATENT-CLASS-73-714	c 35	N84-14491 *	US-PATENT-CLASS-73-88.5	c 09	N72-22200 *	US-PATENT-CLASS-74-674	c 37	N79-20377 *
US-PATENT-CLASS-73-721	c 35	N79-14347 *	US-PATENT-CLASS-73-88.5	c 33	N75-31329 *	US-PATENT-CLASS-74-675	c 37	N74-27901 *
US-PATENT-CLASS-73-721	c 35	N84-22934 *	US-PATENT-CLASS-73-88.5	c 38	N76-28563 *	US-PATENT-CLASS-74-705	c 37	N79-20377 *
US-PATENT-CLASS-73-724	c 32	N79-24203 *	US-PATENT-CLASS-73-88A	c 32	N73-20740 *	US-PATENT-CLASS-74-710	c 37	N74-27901 *
US-PATENT-CLASS-73-724	c 52	N80-18691 *	US-PATENT-CLASS-73-88F	c 39	N78-15512 *	US-PATENT-CLASS-74-753	c 37	N84-28084 *
US-PATENT-CLASS-73-724	c 33	N82-26572 *	US-PATENT-CLASS-73-88R	c 35	N74-13129 *	US-PATENT-CLASS-74-758	c 37	N84-28084 *
US-PATENT-CLASS-73-753	c 35	N85-21597 *	US-PATENT-CLASS-73-88R	c 35	N77-22449 *	US-PATENT-CLASS-74-764	c 37	N79-20377 *
US-PATENT-CLASS-73-756	c 35	N78-24515 *	US-PATENT-CLASS-73-88R	c 39	N77-28511 *	US-PATENT-CLASS-74-800	c 37	N78-17385 *
US-PATENT-CLASS-73-756	c 35	N79-14347 *	US-PATENT-CLASS-73-88	c 32	N71-17645 *	US-PATENT-CLASS-74-812	c 37	N84-28084 *
US-PATENT-CLASS-73-756	c 35	N84-22934 *	US-PATENT-CLASS-73-90	c 32	N70-42003 *	US-PATENT-CLASS-74-81	c 37	N78-16369 *
US-PATENT-CLASS-73-756	c 35	N87-28884 *	US-PATENT-CLASS-73-90	c 32	N71-25360 *	US-PATENT-CLASS-74-820	c 37	N75-13266 *
US-PATENT-CLASS-73-75	c 35	N85-34373 *	US-PATENT-CLASS-73-90	c 14	N73-20476 *	US-PATENT-CLASS-74-83	c 37	N78-16369 *
US-PATENT-CLASS-73-761	c 33	N83-16626 *	US-PATENT-CLASS-73-91	c 14	N73-20476 *	US-PATENT-CLASS-74-89.15	c 15	N71-26635 *
US-PATENT-CLASS-73-76	c 06	N72-17095 *	US-PATENT-CLASS-73-91	c 32	N73-26910 *	US-PATENT-CLASS-74-89.15	c 15	N72-21462 *
US-PATENT-CLASS-73-770	c 39	N79-22537 *	US-PATENT-CLASS-73-91	c 09	N74-19528 *	US-PATENT-CLASS-74-89.18	c 35	N87-21304 *
US-PATENT-CLASS-73-781	c 52	N80-27072 *	US-PATENT-CLASS-73-94	c 39	N78-10493 *	US-PATENT-CLASS-74-89.18	c 15	N71-23809 *
US-PATENT-CLASS-73-794	c 35	N88-23967 *	US-PATENT-CLASS-73-95	c 14	N73-23233 *	US-PATENT-CLASS-74-89	c 37	N81-33483 *
US-PATENT-CLASS-73-794	c 24	N91-14430 *	US-PATENT-CLASS-73-95	c 15	N71-24834 *	US-PATENT-CLASS-74-96	c 37	N77-22482 *
US-PATENT-CLASS-73-799	c 35	N90-23712 *	US-PATENT-CLASS-73-95	c 14	N72-11364 *	US-PATENT-CLASS-75-5B	c 17	N72-22530 *
US-PATENT-CLASS-73-79	c 14	N71-26161 *	US-PATENT-CLASS-73-95	c 35	N76-18400 *	US-PATENT-CLASS-75-DIG.1	c 18	N72-25539 *
US-PATENT-CLASS-73-7	c 25	N86-19413 *	US-PATENT-CLASS-73-95	c 35	N77-22450 *	US-PATENT-CLASS-75-DIG.1	c 37	N75-26371 *
US-PATENT-CLASS-73-801	c 35	N88-23966 *	US-PATENT-CLASS-73-95	c 31	N79-11246 *	US-PATENT-CLASS-75-5BB	c 15	N72-25448 *
US-PATENT-CLASS-73-809	c 39	N87-25601 *	US-PATENT-CLASS-73-97	c 14	N71-15600 *	US-PATENT-CLASS-75-122.7	c 37	N77-19458 *
US-PATENT-CLASS-73-810	c 39	N79-22537 *	US-PATENT-CLASS-73-99	c 14	N71-10781 *	US-PATENT-CLASS-75-124	c 26	N78-18182 *
US-PATENT-CLASS-73-810	c 39	N87-25601 *	US-PATENT-CLASS-73-9	c 14	N71-22995 *	US-PATENT-CLASS-75-124	c 26	N80-32484 *
US-PATENT-CLASS-73-810	c 35	N88-23967 *	US-PATENT-CLASS-73-9	c 35	N76-31489 *	US-PATENT-CLASS-75-126D	c 26	N78-18182 *
US-PATENT-CLASS-73-818	c 35	N83-21312 *	US-PATENT-CLASS-73-9	c 15	N84-16231 *	US-PATENT-CLASS-75-126F	c 26	N78-18182 *
US-PATENT-CLASS-73-818	c 39	N83-32081 *	US-PATENT-CLASS-74-100R	c 37	N78-31426 *	US-PATENT-CLASS-75-128G	c 26	N78-18182 *
US-PATENT-CLASS-73-81	c 14	N73-32321 *	US-PATENT-CLASS-74-100	c 15	N71-24045 *	US-PATENT-CLASS-75-128T	c 26	N78-18182 *
US-PATENT-CLASS-73-822	c 39	N83-32081 *	US-PATENT-CLASS-74-105	c 09	N72-22195 *	US-PATENT-CLASS-75-134D	c 76	N79-16678 *
US-PATENT-CLASS-73-827	c 39	N86-20841 *	US-PATENT-CLASS-74-110	c 44	N83-14693 *	US-PATENT-CLASS-75-135	c 18	N73-32437 *
US-PATENT-CLASS-73-82	c 43	N79-25443 *	US-PATENT-CLASS-74-126	c 15	N71-21529 *	US-PATENT-CLASS-75-135	c 24	N77-27187 *
US-PATENT-CLASS-73-82	c 43	N80-14423 *	US-PATENT-CLASS-74-18.1	c 37	N82-24493 *	US-PATENT-CLASS-75-135	c 26	N80-23419 *
US-PATENT-CLASS-73-82	c 43	N80-23711 *	US-PATENT-CLASS-74-18.2	c 11	N71-27036 *	US-PATENT-CLASS-75-138	c 26	N80-23419 *
US-PATENT-CLASS-73-831	c 35	N85-34375 *	US-PATENT-CLASS-74-18.2	c 37	N82-24493 *	US-PATENT-CLASS-75-139	c 24	N77-27187 *
US-PATENT-CLASS-73-831	c 37	N90-20409 *	US-PATENT-CLASS-74-217R	c 37	N74-23070 *	US-PATENT-CLASS-75-142	c 17	N71-20743 *
US-PATENT-CLASS-73-833	c 24	N84-27829 *	US-PATENT-CLASS-74-2	c 15	N71-24600 *	US-PATENT-CLASS-75-170	c 17	N71-15644 *
US-PATENT-CLASS-73-834	c 37	N88-14361 *	US-PATENT-CLASS-74-2	c 31	N73-14855 *	US-PATENT-CLASS-75-170	c 17	N71-16025 *
US-PATENT-CLASS-73-845	c 35	N90-23712 *	US-PATENT-CLASS-74-384	c 37	N76-15457 *	US-PATENT-CLASS-75-170	c 17	N71-23248 *
US-PATENT-CLASS-73-84	c 14	N71-22765 *	US-PATENT-CLASS-74-385	c 07	N78-17056 *	US-PATENT-CLASS-75-170	c 17	N72-22535 *
US-PATENT-CLASS-73-84	c 14	N73-19420 *	US-PATENT-CLASS-74-409	c 15	N71-21744 *	US-PATENT-CLASS-75-170	c 37	N77-19458 *
US-PATENT-CLASS-73-84	c 35	N77-27367 *	US-PATENT-CLASS-74-417	c 07	N78-17056 *	US-PATENT-CLASS-75-170	c 26	N77-20201 *
US-PATENT-CLASS-73-856	c 39	N83-32081 *	US-PATENT-CLASS-74-417	c 37	N81-14318 *	US-PATENT-CLASS-75-170	c 26	N77-32279 *
US-PATENT-CLASS-73-856	c 24	N84-27829 *	US-PATENT-CLASS-74-417	c 37	N81-17432 *	US-PATENT-CLASS-75-170	c 26	N77-32280 *
US-PATENT-CLASS-73-856	c 35	N85-34375 *	US-PATENT-CLASS-74-424.8-R	c 35	N87-21304 *	US-PATENT-CLASS-75-170	c 26	N78-18183 *
US-PATENT-CLASS-73-856	c 09	N87-25334 *	US-PATENT-CLASS-74-424.8B	c 37	N85-20338 *	US-PATENT-CLASS-75-171	c 17	N70-33283 *
US-PATENT-CLASS-73-85	c 14	N72-33377 *	US-PATENT-CLASS-74-424.8VA	c 37	N75-15050 *	US-PATENT-CLASS-75-171	c 17	N70-36616 *
US-PATENT-CLASS-73-860	c 39	N83-32081 *	US-PATENT-CLASS-74-424.8VA	c 37	N85-20338 *	US-PATENT-CLASS-75-171	c 17	N71-16026 *
US-PATENT-CLASS-73-860	c 37	N90-20409 *	US-PATENT-CLASS-74-424.8	c 15	N71-26635 *	US-PATENT-CLASS-75-171	c 17	N73-32415 *
US-PATENT-CLASS-73-861.05	c 33	N83-31954 *	US-PATENT-CLASS-74-425	c 37	N80-32716 *	US-PATENT-CLASS-75-172	c 17	N71-23365 *
US-PATENT-CLASS-73-861.07	c 34	N86-12547 *	US-PATENT-CLASS-74-436	c 37	N75-13266 *	US-PATENT-CLASS-75-173	c 26	N75-27126 *
US-PATENT-CLASS-73-861.58	c 35	N86-25752 *	US-PATENT-CLASS-74-441	c 35	N87-21304 *	US-PATENT-CLASS-75-173	c 26	N75-27127 *
US-PATENT-CLASS-73-861.65	c 02	N80-28300 *	US-PATENT-CLASS-74-458	c 35	N87-21304 *	US-PATENT-CLASS-75-178R	c 04	N76-20114 *
US-PATENT-CLASS-73-861.65	c 35	N89-14423 *	US-PATENT-CLASS-74-468	c 15	N71-24984 *	US-PATENT-CLASS-75-178R	c 26	N80-23419 *
US-PATENT-CLASS-73-861.66	c 02	N80-28300 *	US-PATENT-CLASS-74-468	c 35	N87-21304 *	US-PATENT-CLASS-75-20F	c 15	N72-11387 *
US-PATENT-CLASS-73-861.71	c 47	N84-28292 *	US-PATENT-CLASS-74-469	c 15	N72-21463 *	US-PATENT-CLASS-75-200	c 26	N74-10521 *

US-PATENT-CLASS-75-200	c 37	N74-13179 *	US-PATENT-CLASS-88-14	c 14	N70-40003 *	US-PATENT-CLASS-95-12	c 14	N73-33361 *
US-PATENT-CLASS-75-200	c 24	N75-13032 *	US-PATENT-CLASS-88-14	c 14	N70-41946 *	US-PATENT-CLASS-95-18	c 14	N72-20380 *
US-PATENT-CLASS-75-200	c 37	N75-26371 *	US-PATENT-CLASS-88-14	c 14	N70-41955 *	US-PATENT-CLASS-95-42	c 14	N73-32322 *
US-PATENT-CLASS-75-200	c 24	N80-33482 *	US-PATENT-CLASS-88-14	c 09	N71-22999 *	US-PATENT-CLASS-95-44	c 14	N71-26474 *
US-PATENT-CLASS-75-202	c 17	N71-15468 *	US-PATENT-CLASS-88-16	c 14	N70-33254 *	US-PATENT-CLASS-95-53EA	c 33	N74-20861 *
US-PATENT-CLASS-75-203	c 27	N79-14213 *	US-PATENT-CLASS-88-1	c 21	N70-35427 *	US-PATENT-CLASS-95-53	c 15	N71-21060 *
US-PATENT-CLASS-75-204	c 18	N71-22894 *	US-PATENT-CLASS-88-1	c 21	N71-22880 *	US-PATENT-CLASS-95-58	c 14	N70-40273 *
US-PATENT-CLASS-75-205	c 27	N79-14213 *	US-PATENT-CLASS-88-24	c 23	N71-21882 *	US-PATENT-CLASS-95-59	c 14	N73-14427 *
US-PATENT-CLASS-75-206	c 15	N72-25448 *	US-PATENT-CLASS-89-1.14	c 37	N87-23983 *	US-PATENT-CLASS-95-89R	c 35	N74-15831 *
US-PATENT-CLASS-75-206	c 27	N79-14213 *	US-PATENT-CLASS-89-1.14	c 37	N90-21390 *	US-PATENT-CLASS-96-27R	c 35	N79-10389 *
US-PATENT-CLASS-75-208R	c 37	N75-26371 *	US-PATENT-CLASS-89-1.34	c 03	N91-15142 *	US-PATENT-CLASS-96-36.2	c 06	N72-21094 *
US-PATENT-CLASS-75-208	c 18	N72-25539 *	US-PATENT-CLASS-89-1.5G	c 08	N82-32373 *	US-PATENT-CLASS-96-36.2	c 15	N72-25452 *
US-PATENT-CLASS-75-211	c 18	N72-25539 *	US-PATENT-CLASS-89-1.54	c 05	N87-14314 *	US-PATENT-CLASS-96-38.3	c 35	N74-26946 *
US-PATENT-CLASS-75-212	c 37	N75-26371 *	US-PATENT-CLASS-89-1.57	c 37	N85-30334 *	US-PATENT-CLASS-96-49	c 14	N71-17574 *
US-PATENT-CLASS-75-212	c 27	N79-14213 *	US-PATENT-CLASS-89-1.57	c 37	N90-21390 *	US-PATENT-CLASS-96-60R	c 35	N79-10389 *
US-PATENT-CLASS-75-213	c 15	N72-25448 *	US-PATENT-CLASS-89-1.5	c 31	N71-15675 *	US-PATENT-CLASS-96-79	c 35	N74-26946 *
US-PATENT-CLASS-75-213	c 37	N74-13179 *	US-PATENT-CLASS-89-1.5	c 15	N71-24600 *	US-PATENT-CLASS-96-87A	c 27	N78-14164 *
US-PATENT-CLASS-75-214	c 37	N74-13179 *	US-PATENT-CLASS-89-1.7	c 11	N70-38202 *	US-PATENT-CLASS-96-90PC	c 14	N72-22443 *
US-PATENT-CLASS-75-214	c 37	N75-26371 *	US-PATENT-CLASS-89-1.7	c 30	N70-40353 *	US-PATENT-CLASS-98-1.5	c 44	N78-32539 *
US-PATENT-CLASS-75-222	c 28	N70-38197 *	US-PATENT-CLASS-89-1.7	c 03	N71-12258 *	US-PATENT-CLASS-98-1	c 54	N78-17679 *
US-PATENT-CLASS-75-222	c 37	N75-26371 *	US-PATENT-CLASS-89-1.7	c 03	N71-12259 *	US-PATENT-CLASS-98-39	c 31	N74-27902 *
US-PATENT-CLASS-75-222	c 24	N80-33482 *	US-PATENT-CLASS-89-1.801	c 20	N76-22296 *	US-PATENT-CLASS-99-80PS	c 05	N72-33096 *
US-PATENT-CLASS-75-225	c 34	N76-27515 *	US-PATENT-CLASS-89-1.806	c 15	N71-24043 *			
US-PATENT-CLASS-75-226	c 18	N72-25539 *	US-PATENT-CLASS-89-1.811	c 15	N72-17455 *	US-PATENT-DES-228,688	c 05	N74-10907 *
US-PATENT-CLASS-75-226	c 26	N74-10521 *	US-PATENT-CLASS-89-1B	c 01	N83-35992 *			
US-PATENT-CLASS-75-226	c 37	N74-13179 *	US-PATENT-CLASS-89-1	c 03	N70-34667 *	US-PATENT-RE-26,548	c 07	N71-12389 *
US-PATENT-CLASS-75-226	c 27	N79-14213 *	US-PATENT-CLASS-89-1	c 15	N71-16078 *	US-PATENT-RE-28,921	c 52	N76-30793 *
US-PATENT-CLASS-75-228	c 24	N90-23493 *	US-PATENT-CLASS-89-36.02	c 24	N90-21822 *			
US-PATENT-CLASS-75-229	c 27	N78-17206 *	US-PATENT-CLASS-89-8	c 11	N71-18578 *	US-PATENT-2,837,706	c 15	N71-28952 *
US-PATENT-CLASS-75-239	c 27	N78-17206 *	US-PATENT-CLASS-89-8	c 11	N73-32152 *	US-PATENT-2,898,889	c 02	N71-29128 *
US-PATENT-CLASS-75-241	c 27	N78-17206 *	US-PATENT-CLASS-89-8	c 75	N76-14931 *	US-PATENT-2,903,307	c 15	N71-29136 *
US-PATENT-CLASS-75-25	c 28	N81-15119 *	US-PATENT-CLASS-89-8	c 75	N76-17951 *	US-PATENT-2,926,123	c 33	N71-29151 *
US-PATENT-CLASS-75-63	c 15	N71-27184 *	US-PATENT-CLASS-89-8	c 09	N79-21084 *	US-PATENT-2,934,331	c 15	N70-33382 *
US-PATENT-CLASS-75-65R	c 24	N77-27187 *	US-PATENT-CLASS-89-11A	c 02	N73-26006 *	US-PATENT-2,940,259	c 28	N70-33241 *
US-PATENT-CLASS-75-66	c 17	N71-26773 *	US-PATENT-CLASS-9-11A	c 54	N74-14845 *	US-PATENT-2,944,316	c 15	N71-16076 *
US-PATENT-CLASS-75-66	c 06	N73-13129 *	US-PATENT-CLASS-9-11	c 05	N70-34857 *	US-PATENT-2,945,667	c 15	N70-33376 *
US-PATENT-CLASS-75-66	c 17	N73-28573 *	US-PATENT-CLASS-9-2A	c 02	N73-26006 *	US-PATENT-2,956,772	c 33	N71-29152 *
US-PATENT-CLASS-77.5AQ	c 27	N81-15104 *	US-PATENT-CLASS-9-312	c 05	N71-22748 *	US-PATENT-2,960,002	c 14	N70-41946 *
US-PATENT-CLASS-77.5CH	c 27	N81-15104 *	US-PATENT-CLASS-9-316	c 05	N70-36493 *	US-PATENT-2,971,837	c 17	N70-33283 *
US-PATENT-CLASS-78-1	c 15	N70-33330 *	US-PATENT-CLASS-9-3	c 02	N73-26006 *	US-PATENT-2,974,925	c 28	N70-33372 *
US-PATENT-CLASS-788-704	c 36	N79-18307 *	US-PATENT-CLASS-9-8	c 03	N70-36778 *	US-PATENT-2,984,735	c 11	N70-33329 *
US-PATENT-CLASS-8-DIG.12	c 27	N80-26446 *	US-PATENT-CLASS-9-9	c 15	N71-24600 *	US-PATENT-2,991,671	c 15	N70-33330 *
US-PATENT-CLASS-8-DIG.18	c 27	N80-26446 *	US-PATENT-CLASS-90-11	c 15	N71-33518 *	US-PATENT-2,991,961	c 02	N70-33332 *
US-PATENT-CLASS-8-DIG.9	c 25	N86-25428 *	US-PATENT-CLASS-90-12.5	c 37	N74-25968 *	US-PATENT-2,996,212	c 31	N71-17680 *
US-PATENT-CLASS-8-115.5	c 27	N80-26446 *	US-PATENT-CLASS-90-12	c 15	N71-22799 *	US-PATENT-2,997,274	c 28	N71-29154 *
US-PATENT-CLASS-8-150	c 09	N82-29330 *	US-PATENT-CLASS-90-1	c 18	N88-23828 *	US-PATENT-3,001,363	c 28	N70-33331 *
US-PATENT-CLASS-8-3	c 51	N77-27677 *	US-PATENT-CLASS-90-1-25	c 37	N86-20789 *	US-PATENT-3,001,395	c 14	N70-33386 *
US-PATENT-CLASS-8-94.11	c 51	N77-27677 *	US-PATENT-CLASS-90-1-28	c 37	N91-17388 *	US-PATENT-3,001,739	c 03	N70-33343 *
US-PATENT-CLASS-8-94.12	c 18	N71-15545 *	US-PATENT-CLASS-90-1-31	c 37	N86-19603 *	US-PATENT-3,004,189	c 37	N75-29426 *
US-PATENT-CLASS-81-119	c 37	N79-14383 *	US-PATENT-CLASS-90-1-31	c 37	N86-20789 *	US-PATENT-3,004,735	c 14	N70-33322 *
US-PATENT-CLASS-81-177G	c 37	N85-21649 *	US-PATENT-CLASS-90-1-33	c 18	N88-23828 *	US-PATENT-3,005,081	c 09	N70-33312 *
US-PATENT-CLASS-81-180B	c 37	N79-14383 *	US-PATENT-CLASS-90-1-38	c 37	N90-20408 *	US-PATENT-3,005,339	c 11	N70-33287 *
US-PATENT-CLASS-81-3R	c 15	N71-29133 *	US-PATENT-CLASS-90-1-38	c 37	N91-14615 *	US-PATENT-3,008,229	c 15	N70-33311 *
US-PATENT-CLASS-81-55	c 37	N83-36482 *	US-PATENT-CLASS-90-1-39	c 37	N90-20408 *	US-PATENT-3,010,372	c 15	N70-33180 *
US-PATENT-CLASS-81-56	c 37	N76-20480 *	US-PATENT-CLASS-90-1-39	c 37	N91-14615 *	US-PATENT-3,011,760	c 15	N70-33226 *
US-PATENT-CLASS-81-57.31	c 37	N76-20480 *	US-PATENT-CLASS-90-1-42	c 37	N86-21850 *	US-PATENT-3,012,400	c 28	N70-33374 *
US-PATENT-CLASS-81-57.38	c 15	N73-30457 *	US-PATENT-CLASS-90-1-47	c 37	N86-21850 *	US-PATENT-3,012,407	c 15	N70-33323 *
US-PATENT-CLASS-81-57.38	c 37	N83-36482 *	US-PATENT-CLASS-90-1-50	c 37	N86-19603 *	US-PATENT-3,016,693	c 28	N70-33356 *
US-PATENT-CLASS-81-63.1	c 15	N71-17805 *	US-PATENT-CLASS-91-186	c 05	N73-32014 *	US-PATENT-3,016,863	c 12	N70-33305 *
US-PATENT-CLASS-81-9.5R	c 37	N79-10419 *	US-PATENT-CLASS-91-325	c 37	N81-32510 *	US-PATENT-3,022,672	c 14	N70-34816 *
US-PATENT-CLASS-81-90B	c 37	N79-14383 *	US-PATENT-CLASS-91-341R	c 37	N81-32510 *	US-PATENT-3,024,659	c 14	N70-34820 *
US-PATENT-CLASS-82-1.2	c 37	N81-14319 *	US-PATENT-CLASS-91-361	c 15	N71-27754 *	US-PATENT-3,028,122	c 02	N70-33286 *
US-PATENT-CLASS-82-1C	c 37	N81-14319 *	US-PATENT-CLASS-91-363A	c 15	N73-13466 *	US-PATENT-3,028,126	c 21	N70-33279 *
US-PATENT-CLASS-82-14	c 15	N71-22722 *	US-PATENT-CLASS-91-390	c 15	N71-27147 *	US-PATENT-3,028,128	c 31	N70-33242 *
US-PATENT-CLASS-82-24R	c 14	N72-16283 *	US-PATENT-CLASS-91-390	c 15	N71-27754 *	US-PATENT-3,035,333	c 28	N70-41818 *
US-PATENT-CLASS-82-36R	c 37	N81-14319 *	US-PATENT-CLASS-91-410	c 37	N81-32510 *	US-PATENT-3,038,077	c 21	N70-33181 *
US-PATENT-CLASS-82-90	c 37	N85-21650 *	US-PATENT-CLASS-91-448	c 15	N71-27754 *	US-PATENT-3,038,175	c 05	N70-33285 *
US-PATENT-CLASS-83-152	c 76	N80-18951 *	US-PATENT-CLASS-91-448	c 15	N73-13466 *	US-PATENT-3,041,587	c 14	N70-33179 *
US-PATENT-CLASS-83-451	c 37	N77-14478 *	US-PATENT-CLASS-91-461	c 15	N71-27147 *	US-PATENT-3,041,924	c 14	N70-33254 *
US-PATENT-CLASS-83-452	c 39	N74-13131 *	US-PATENT-CLASS-92-130R	c 37	N81-33483 *	US-PATENT-3,045,424	c 28	N70-40367 *
US-PATENT-CLASS-83-467R	c 37	N77-14478 *	US-PATENT-CLASS-92-176	c 37	N88-23981 *	US-PATENT-3,049,876	c 28	N70-33284 *
US-PATENT-CLASS-83-467	c 15	N71-22798 *	US-PATENT-CLASS-92-208	c 24	N87-27742 *	US-PATENT-3,053,484	c 02	N70-33255 *
US-PATENT-CLASS-83-522	c 15	N72-27485 *	US-PATENT-CLASS-92-212	c 37	N88-23981 *	US-PATENT-3,057,597	c 15	N70-33264 *
US-PATENT-CLASS-83-562	c 15	N72-27485 *	US-PATENT-CLASS-92-212	c 37	N90-22042 *	US-PATENT-3,059,220	c 09	N70-33182 *
US-PATENT-CLASS-83-563	c 15	N72-27485 *	US-PATENT-CLASS-92-213	c 37	N90-22042 *	US-PATENT-3,063,291	c 11	N70-33278 *
US-PATENT-CLASS-83-588	c 15	N72-27485 *	US-PATENT-CLASS-92-214	c 37	N88-23981 *	US-PATENT-3,064,928	c 02	N70-33266 *
US-PATENT-CLASS-83-602	c 39	N74-13131 *	US-PATENT-CLASS-92-222	c 37	N88-23981 *	US-PATENT-3,067,573	c 28	N70-39899 *
US-PATENT-CLASS-83-664	c 37	N85-21650 *	US-PATENT-CLASS-92-222	c 37	N90-22042 *	US-PATENT-3,068,658	c 15	N70-34247 *
US-PATENT-CLASS-83-676	c 37	N85-21650 *	US-PATENT-CLASS-92-224	c 37	N88-23981 *	US-PATENT-3,069,123	c 14	N70-39898 *
US-PATENT-CLASS-83-820	c 37	N80-29703 *	US-PATENT-CLASS-92-248	c 37	N90-22042 *	US-PATENT-3,070,330	c 21	N70-34539 *
US-PATENT-CLASS-83-870	c 76	N80-18951 *	US-PATENT-CLASS-92-37	c 37	N82-24493 *	US-PATENT-3,070,349	c 28	N70-39895 *
US-PATENT-CLASS-83-8	c 15	N72-27485 *	US-PATENT-CLASS-92-49	c 14	N73-13418 *	US-PATENT-3,070,407	c 15	N70-39896 *
US-PATENT-CLASS-83-917	c 39	N74-13131 *	US-PATENT-CLASS-92-94	c 32	N70-41370 *	US-PATENT-3,072,574	c 18	N70-39897 *
US-PATENT-CLASS-85-1	c 15	N72-22488 *	US-PATENT-CLASS-92-98R	c 31	N85-21404 *	US-PATENT-3,076,065	c 09	N70-39915 *
US-PATENT-CLASS-85-33	c 15	N71-15922 *	US-PATENT-CLASS-93-1	c 15	N70-33180 *	US-PATENT-3,077,599	c 07	N70-40202 *
US-PATENT-CLASS-85-33	c 15	N71-21489 *	US-PATENT-CLASS-94.9N	c 27	N81-15104 *	US-PATENT-3,079,113	c 02	N70-38009 *
US-PATENT-CLASS-85-3	c 15	N71-17653 *	US-PATENT-CLASS-95-1.1	c 14	N72-18411 *	US-PATENT-3,080,711	c 28	N70-38711 *
US-PATENT-CLASS-85-5B	c 15	N72-11385 *	US-PATENT-CLASS-95-1.1	c 14	N73-26431 *	US-PATENT-3,083,611	c 21	N70-35427 *
US-PATENT-CLASS-85-7	c 15	N71-23254 *	US-PATENT-CLASS-95-11.5R	c 14	N73-19419 *	US-PATENT-3,084,421	c 17	N70-38490 *
US-PATENT-CLASS-85-9R	c 27	N81-15104 *	US-PATENT-CLASS-95-11.5	c 14	N73-32319 *	US-PATENT-3,085,165	c 09	N70-34819 *
US-PATENT-CLASS-86-1R	c 28	N77-10213 *	US-PATENT-CLASS-95-11R	c 14	N73-19419 *	US-PATENT-3,087,692	c 02	N70-34178 *
US-PATENT-CLASS-86-1R	c 20	N77-17143 *	US-PATENT-CLASS-95-11	c 14	N71-18465 *	US-PATENT-3,088,441	c 15	N70-35409 *
US-PATENT-CLASS-86-1	c 28	N71-26779 *	US-PATENT-CLASS-95-11	c 16	N71-33410 *	US-PATENT-3,090,212	c 33	N70-37979 *
US-PATENT-CLASS-86-20.2	c 28	N71-26779 *	US-PATENT-CLASS-95-11	c 14	N73-32319 *	US-PATENT-3,090,580	c 31	N70-37924 *
US-PATENT-CLASS-86-20R	c 20	N77-17143 *	US-PATENT-CLASS-95-12.5	c 31	N72-25842 *	US-PATENT-3,093,000	c 15	N70-37925 *
US-PATENT-CLASS-88-14	c 14	N70-34298 *	US-PATENT-CLASS-95-12.5	c 14	N73-14427 *	US-PATENT-3,093,346	c 31	N70-37938 *

US-PATENT-3,098,630	c 02	N70-37939 *	US-PATENT-3,176,933	c 33	N70-38617 *	US-PATENT-3,229,636	c 03	N70-39930 *
US-PATENT-3,100,294	c 09	N70-38998 *	US-PATENT-3,177,933	c 33	N70-38847 *	US-PATENT-3,229,682	c 09	N70-40234 *
US-PATENT-3,100,930	c 14	N70-34813 *	US-PATENT-3,178,883	c 21	N70-36938 *	US-PATENT-3,229,689	c 05	N70-39922 *
US-PATENT-3,102,948	c 15	N70-34814 *	US-PATENT-3,180,264	c 33	N70-36846 *	US-PATENT-3,229,884	c 15	N70-39924 *
US-PATENT-3,104,079	c 31	N70-37986 *	US-PATENT-3,180,587	c 21	N70-36943 *	US-PATENT-3,229,905	c 04	N78-17031 *
US-PATENT-3,104,082	c 02	N70-38011 *	US-PATENT-3,181,821	c 31	N70-36845 *	US-PATENT-3,229,930	c 30	N70-40016 *
US-PATENT-3,105,515	c 15	N70-38603 *	US-PATENT-3,182,496	c 11	N70-36913 *	US-PATENT-3,230,053	c 26	N70-40015 *
US-PATENT-3,106,603	c 09	N70-38201 *	US-PATENT-3,183,506	c 07	N70-36911 *	US-PATENT-3,233,862	c 37	N79-33469 *
US-PATENT-3,108,171	c 33	N70-34812 *	US-PATENT-3,185,023	c 14	N70-34298 *	US-PATENT-3,236,066	c 15	N71-28959 *
US-PATENT-3,110,318	c 12	N70-38997 *	US-PATENT-3,187,583	c 11	N70-38675 *	US-PATENT-3,237,253	c 15	N71-15966 *
US-PATENT-3,112,672	c 11	N70-38202 *	US-PATENT-3,188,472	c 21	N70-34297 *	US-PATENT-3,238,345	c 11	N71-15925 *
US-PATENT-3,115,630	c 31	N70-37981 *	US-PATENT-3,188,844	c 15	N70-34249 *	US-PATENT-3,238,413	c 25	N71-29184 *
US-PATENT-3,118,100	c 03	N71-29129 *	US-PATENT-3,189,299	c 21	N70-34295 *	US-PATENT-3,238,715	c 28	N71-14043 *
US-PATENT-3,119,086	c 35	N79-33449 *	US-PATENT-3,189,535	c 15	N70-34967 *	US-PATENT-3,238,730	c 03	N71-12260 *
US-PATENT-3,119,232	c 28	N70-37980 *	US-PATENT-3,189,726	c 33	N70-34545 *	US-PATENT-3,238,774	c 14	N71-14996 *
US-PATENT-3,120,101	c 28	N70-34860 *	US-PATENT-3,189,784	c 33	N75-27250 *	US-PATENT-3,238,777	c 14	N71-15598 *
US-PATENT-3,120,361	c 31	N70-38010 *	US-PATENT-3,189,794	c 09	N70-34502 *	US-PATENT-3,239,660	c 23	N71-30292 *
US-PATENT-3,120,738	c 28	N70-38249 *	US-PATENT-3,189,864	c 09	N70-34596 *	US-PATENT-3,242,716	c 14	N71-15992 *
US-PATENT-3,121,309	c 28	N70-35381 *	US-PATENT-3,190,124	c 35	N79-33450 *	US-PATENT-3,243,154	c 23	N71-15673 *
US-PATENT-3,122,000	c 15	N70-38020 *	US-PATENT-3,191,316	c 31	N70-34966 *	US-PATENT-3,243,791	c 07	N71-11298 *
US-PATENT-3,122,098	c 28	N70-38181 *	US-PATENT-3,191,379	c 27	N70-35534 *	US-PATENT-3,244,943	c 15	N73-28516 *
US-PATENT-3,122,885	c 28	N70-38710 *	US-PATENT-3,191,907	c 15	N70-34859 *	US-PATENT-3,249,012	c 03	N71-12258 *
US-PATENT-3,123,248	c 11	N70-38182 *	US-PATENT-3,192,730	c 06	N70-34946 *	US-PATENT-3,249,013	c 03	N71-12259 *
US-PATENT-3,123,418	c 37	N79-33467 *	US-PATENT-3,193,883	c 27	N70-34783 *	US-PATENT-3,251,053	c 08	N71-12501 *
US-PATENT-3,123,692	c 33	N79-33393 *	US-PATENT-3,194,060	c 14	N70-34794 *	US-PATENT-3,252,100	c 10	N71-28960 *
US-PATENT-3,127,157	c 15	N70-38225 *	US-PATENT-3,194,525	c 11	N70-35383 *	US-PATENT-3,254,395	c 28	N71-15658 *
US-PATENT-3,128,389	c 09	N70-38604 *	US-PATENT-3,194,951	c 08	N70-34778 *	US-PATENT-3,254,487	c 28	N71-15659 *
US-PATENT-3,128,845	c 15	N70-38601 *	US-PATENT-3,196,261	c 08	N70-34787 *	US-PATENT-3,257,780	c 15	N71-15668 *
US-PATENT-3,130,940	c 33	N70-33344 *	US-PATENT-3,196,362	c 09	N70-35440 *	US-PATENT-3,258,582	c 02	N71-13421 *
US-PATENT-3,131,040	c 37	N79-21345 *	US-PATENT-3,196,557	c 11	N70-34815 *	US-PATENT-3,258,687	c 14	N71-15962 *
US-PATENT-3,132,342	c 07	N70-38200 *	US-PATENT-3,196,558	c 14	N70-35394 *	US-PATENT-3,258,831	c 15	N71-15986 *
US-PATENT-3,132,476	c 28	N70-34294 *	US-PATENT-3,196,598	c 28	N70-34788 *	US-PATENT-3,258,912	c 27	N71-15634 *
US-PATENT-3,132,479	c 15	N71-28951 *	US-PATENT-3,196,675	c 14	N70-34818 *	US-PATENT-3,258,918	c 27	N71-15635 *
US-PATENT-3,132,903	c 15	N70-38620 *	US-PATENT-3,196,690	c 11	N70-34786 *	US-PATENT-3,260,055	c 23	N71-15467 *
US-PATENT-3,134,389	c 37	N79-33468 *	US-PATENT-3,197,616	c 14	N71-28958 *	US-PATENT-3,260,204	c 31	N71-15692 *
US-PATENT-3,135,089	c 28	N70-38504 *	US-PATENT-3,198,955	c 08	N70-34743 *	US-PATENT-3,260,326	c 11	N71-28779 *
US-PATENT-3,135,090	c 28	N70-38505 *	US-PATENT-3,198,994	c 26	N73-28710 *	US-PATENT-3,261,210	c 14	N71-15969 *
US-PATENT-3,136,123	c 28	N70-38199 *	US-PATENT-3,199,340	c 14	N70-34799 *	US-PATENT-3,262,025	c 15	N73-32361 *
US-PATENT-3,138,837	c 17	N70-38198 *	US-PATENT-3,199,343	c 11	N70-34844 *	US-PATENT-3,262,186	c 15	N71-16052 *
US-PATENT-3,139,725	c 28	N70-38645 *	US-PATENT-3,199,931	c 15	N70-34664 *	US-PATENT-3,262,262	c 28	N71-15661 *
US-PATENT-3,140,728	c 15	N70-36908 *	US-PATENT-3,200,706	c 03	N70-34667 *	US-PATENT-3,262,351	c 15	N71-15922 *
US-PATENT-3,141,340	c 11	N70-38196 *	US-PATENT-3,201,560	c 33	N70-34540 *	US-PATENT-3,262,365	c 31	N71-15675 *
US-PATENT-3,141,769	c 28	N70-38197 *	US-PATENT-3,201,635	c 25	N70-34661 *	US-PATENT-3,262,395	c 15	N71-30028 *
US-PATENT-3,141,932	c 03	N70-38713 *	US-PATENT-3,201,980	c 14	N70-40203 *	US-PATENT-3,262,518	c 05	N71-11199 *
US-PATENT-3,143,321	c 15	N70-34850 *	US-PATENT-3,202,381	c 31	N70-34176 *	US-PATENT-3,262,655	c 31	N71-15663 *
US-PATENT-3,143,651	c 14	N70-40240 *	US-PATENT-3,202,398	c 28	N71-28928 *	US-PATENT-3,262,694	c 44	N79-19447 *
US-PATENT-3,144,219	c 31	N70-38676 *	US-PATENT-3,202,844	c 03	N70-34134 *	US-PATENT-3,263,016	c 33	N71-15625 *
US-PATENT-3,144,999	c 02	N70-34856 *	US-PATENT-3,202,915	c 14	N70-38602 *	US-PATENT-3,263,171	c 09	N71-13530 *
US-PATENT-3,145,874	c 11	N71-15960 *	US-PATENT-3,202,998	c 31	N70-34135 *	US-PATENT-3,263,610	c 15	N71-13789 *
US-PATENT-3,147,422	c 09	N70-38712 *	US-PATENT-3,204,447	c 14	N70-34156 *	US-PATENT-3,264,135	c 15	N71-16075 *
US-PATENT-3,149,897	c 09	N70-36494 *	US-PATENT-3,204,889	c 03	N70-34157 *	US-PATENT-3,270,441	c 11	N71-16028 *
US-PATENT-3,150,329	c 09	N70-38995 *	US-PATENT-3,205,361	c 14	N70-34158 *	US-PATENT-3,270,499	c 28	N71-15660 *
US-PATENT-3,150,387	c 03	N70-36778 *	US-PATENT-3,205,362	c 21	N70-35089 *	US-PATENT-3,270,501	c 31	N71-15647 *
US-PATENT-3,152,344	c 05	N70-36493 *	US-PATENT-3,205,381	c 03	N70-35408 *	US-PATENT-3,270,503	c 33	N71-15623 *
US-PATENT-3,155,992	c 05	N70-34857 *	US-PATENT-3,206,141	c 21	N70-35395 *	US-PATENT-3,270,504	c 31	N71-15637 *
US-PATENT-3,156,090	c 28	N70-37245 *	US-PATENT-3,206,897	c 18	N75-27040 *	US-PATENT-3,270,505	c 21	N71-15582 *
US-PATENT-3,157,529	c 18	N70-36400 *	US-PATENT-3,208,215	c 28	N70-34162 *	US-PATENT-3,270,512	c 15	N71-15906 *
US-PATENT-3,158,172	c 15	N70-34817 *	US-PATENT-3,208,272	c 14	N70-34161 *	US-PATENT-3,270,565	c 14	N71-30265 *
US-PATENT-3,158,336	c 31	N70-36410 *	US-PATENT-3,208,694	c 02	N70-34160 *	US-PATENT-3,270,756	c 15	N71-15967 *
US-PATENT-3,158,764	c 03	N70-36803 *	US-PATENT-3,208,707	c 31	N70-34159 *	US-PATENT-3,270,802	c 33	N71-24876 *
US-PATENT-3,159,967	c 28	N70-36802 *	US-PATENT-3,209,360	c 09	N70-35219 *	US-PATENT-3,270,835	c 28	N70-41582 *
US-PATENT-3,160,825	c 14	N70-35220 *	US-PATENT-3,209,361	c 09	N70-35425 *	US-PATENT-3,270,908	c 31	N71-15664 *
US-PATENT-3,160,950	c 15	N70-36409 *	US-PATENT-3,210,927	c 28	N70-34175 *	US-PATENT-3,270,985	c 21	N71-15583 *
US-PATENT-3,162,012	c 15	N70-36411 *	US-PATENT-3,211,169	c 15	N70-35087 *	US-PATENT-3,270,986	c 05	N71-12336 *
US-PATENT-3,163,935	c 14	N70-36907 *	US-PATENT-3,211,414	c 15	N70-35407 *	US-PATENT-3,270,988	c 01	N71-13410 *
US-PATENT-3,164,222	c 15	N70-34861 *	US-PATENT-3,212,096	c 09	N70-35382 *	US-PATENT-3,270,989	c 02	N71-11041 *
US-PATENT-3,164,369	c 15	N70-36412 *	US-PATENT-3,212,259	c 28	N71-29153 *	US-PATENT-3,270,990	c 28	N71-15563 *
US-PATENT-3,165,356	c 05	N70-35152 *	US-PATENT-3,212,325	c 14	N70-34705 *	US-PATENT-3,271,140	c 17	N71-15644 *
US-PATENT-3,166,834	c 15	N70-36901 *	US-PATENT-3,212,564	c 33	N71-29052 *	US-PATENT-3,271,181	c 15	N71-16077 *
US-PATENT-3,167,426	c 17	N70-36616 *	US-PATENT-3,215,313	c 31	N79-21225 *	US-PATENT-3,271,532	c 09	N71-16089 *
US-PATENT-3,168,827	c 14	N70-36807 *	US-PATENT-3,215,572	c 12	N70-40124 *	US-PATENT-3,271,558	c 15	N71-15871 *
US-PATENT-3,169,001	c 02	N70-36825 *	US-PATENT-3,216,007	c 08	N70-40125 *	US-PATENT-3,271,594	c 10	N71-28739 *
US-PATENT-3,169,613	c 15	N70-36947 *	US-PATENT-3,217,624	c 14	N70-40273 *	US-PATENT-3,271,620	c 09	N71-12540 *
US-PATENT-3,169,725	c 31	N70-34296 *	US-PATENT-3,218,479	c 09	N70-40272 *	US-PATENT-3,271,637	c 26	N71-18064 *
US-PATENT-3,170,286	c 15	N70-36535 *	US-PATENT-3,218,547	c 09	N70-40123 *	US-PATENT-3,271,649	c 10	N71-16030 *
US-PATENT-3,170,290	c 28	N70-36910 *	US-PATENT-3,218,850	c 14	N70-40400 *	US-PATENT-3,273,094	c 23	N71-29049 *
US-PATENT-3,170,295	c 27	N71-28929 *	US-PATENT-3,219,250	c 15	N70-40204 *	US-PATENT-3,273,355	c 33	N71-17897 *
US-PATENT-3,170,324	c 14	N70-36824 *	US-PATENT-3,219,365	c 15	N71-28937 *	US-PATENT-3,273,381	c 32	N71-17645 *
US-PATENT-3,170,471	c 32	N70-36536 *	US-PATENT-3,219,997	c 08	N73-28045 *	US-PATENT-3,273,388	c 09	N71-16086 *
US-PATENT-3,170,486	c 15	N70-36492 *	US-PATENT-3,220,004	c 30	N70-40309 *	US-PATENT-3,273,392	c 23	N71-17802 *
US-PATENT-3,170,605	c 15	N70-38996 *	US-PATENT-3,221,547	c 14	N70-40201 *	US-PATENT-3,273,399	c 12	N71-24692 *
US-PATENT-3,170,657	c 02	N70-34858 *	US-PATENT-3,221,549	c 14	N70-40157 *	US-PATENT-3,274,304	c 26	N71-17818 *
US-PATENT-3,170,660	c 02	N70-36804 *	US-PATENT-3,223,374	c 15	N70-40156 *	US-PATENT-3,275,794	c 37	N75-27376 *
US-PATENT-3,170,773	c 17	N70-33288 *	US-PATENT-3,224,001	c 07	N70-40063 *	US-PATENT-3,276,251	c 11	N71-15926 *
US-PATENT-3,171,080	c 25	N70-33267 *	US-PATENT-3,224,173	c 15	N70-40062 *	US-PATENT-3,276,376	c 31	N71-17629 *
US-PATENT-3,171,081	c 14	N70-35666 *	US-PATENT-3,224,263	c 15	N70-40180 *	US-PATENT-3,276,602	c 32	N71-17609 *
US-PATENT-3,172,097	c 08	N70-35423 *	US-PATENT-3,224,336	c 30	N70-40353 *	US-PATENT-3,276,679	c 15	N71-16079 *
US-PATENT-3,173,246	c 28	N70-33265 *	US-PATENT-3,224,337	c 09	N79-21084 *	US-PATENT-3,276,722	c 02	N71-16087 *
US-PATENT-3,173,251	c 28	N70-33375 *	US-PATENT-3,228,492	c 15	N70-40354 *	US-PATENT-3,276,726	c 31	N71-16081 *
US-PATENT-3,173,801	c 32	N79-19186 *	US-PATENT-3,228,558	c 14	N70-40233 *	US-PATENT-3,276,865	c 17	N71-16025 *
US-PATENT-3,174,278	c 25	N70-36946 *	US-PATENT-3,229,099	c 14	N70-40238 *	US-PATENT-3,276,866	c 17	N71-16026 *
US-PATENT-3,174,279	c 28	N70-36806 *	US-PATENT-3,229,102	c 14	N70-40239 *	US-PATENT-3,276,946	c 23	N71-15978 *
US-PATENT-3,174,827	c 26	N70-36805 *	US-PATENT-3,229,139	c 28	N70-39925 *	US-PATENT-3,277,314	c 10	N71-16042 *
US-PATENT-3,175,789	c 31	N70-36654 *	US-PATENT-3,229,155	c 25	N70-41628 *	US-PATENT-3,277,366	c 10	N71-16057 *
US-PATENT-3,176,222	c 14	N70-36618 *	US-PATENT-3,229,463	c 28	N70-39931 *	US-PATENT-3,277,373	c 07	N71-16088 *
US-PATENT-3,176,499	c 14	N70-35368 *	US-PATENT-3,229,568	c 14	N70-40003 *	US-PATENT-3,277,375	c 07	N71-11284 *

US-PATENT-3,277,458	c 10	N71-16058 *	US-PATENT-3,310,261	c 02	N71-11038 *	US-PATENT-3,341,708	c 16	N71-22895 *
US-PATENT-3,277,486	c 31	N71-10747 *	US-PATENT-3,310,262	c 02	N71-12243 *	US-PATENT-3,341,778	c 07	N71-23098 *
US-PATENT-3,279,193	c 33	N71-28852 *	US-PATENT-3,310,443	c 24	N71-10560 *	US-PATENT-3,341,977	c 15	N71-22705 *
US-PATENT-3,281,558	c 33	N75-27249 *	US-PATENT-3,310,699	c 14	N73-32324 *	US-PATENT-3,342,055	c 15	N71-22797 *
US-PATENT-3,281,963	c 11	N71-10746 *	US-PATENT-3,310,765	c 33	N79-21264 *	US-PATENT-3,342,066	c 11	N71-23030 *
US-PATENT-3,281,964	c 11	N71-10776 *	US-PATENT-3,310,978	c 14	N71-10616 *	US-PATENT-3,342,653	c 15	N71-22713 *
US-PATENT-3,281,965	c 11	N71-10748 *	US-PATENT-3,310,980	c 11	N71-10604 *	US-PATENT-3,343,180	c 05	N71-23159 *
US-PATENT-3,282,035	c 11	N71-10777 *	US-PATENT-3,311,315	c 07	N71-10609 *	US-PATENT-3,343,189	c 05	N71-22748 *
US-PATENT-3,282,091	c 14	N71-10781 *	US-PATENT-3,311,502	c 03	N71-10608 *	US-PATENT-3,344,340	c 09	N71-21449 *
US-PATENT-3,282,532	c 31	N71-17729 *	US-PATENT-3,311,510	c 26	N71-10607 *	US-PATENT-3,344,425	c 10	N71-21483 *
US-PATENT-3,282,541	c 31	N71-24750 *	US-PATENT-3,311,571	c 27	N79-21190 *	US-PATENT-3,345,820	c 28	N71-21822 *
US-PATENT-3,282,739	c 03	N71-11053 *	US-PATENT-3,311,748	c 21	N71-10678 *	US-PATENT-3,345,822	c 27	N71-21819 *
US-PATENT-3,282,740	c 03	N71-11051 *	US-PATENT-3,311,772	c 09	N71-10618 *	US-PATENT-3,345,840	c 15	N71-21536 *
US-PATENT-3,283,088	c 10	N71-15909 *	US-PATENT-3,311,832	c 07	N71-10775 *	US-PATENT-3,345,866	c 11	N71-21481 *
US-PATENT-3,283,175	c 10	N71-15910 *	US-PATENT-3,312,101	c 14	N71-10774 *	US-PATENT-3,346,419	c 03	N71-20895 *
US-PATENT-3,283,241	c 14	N71-16014 *	US-PATENT-3,313,204	c 28	N73-24783 *	US-PATENT-3,346,442	c 18	N71-21651 *
US-PATENT-3,286,274	c 05	N71-12335 *	US-PATENT-3,316,716	c 28	N71-10780 *	US-PATENT-3,346,515	c 06	N71-20905 *
US-PATENT-3,286,531	c 30	N71-17788 *	US-PATENT-3,316,752	c 14	N71-10779 *	US-PATENT-3,346,724	c 15	N71-21179 *
US-PATENT-3,286,629	c 31	N71-17730 *	US-PATENT-3,316,991	c 14	N71-10773 *	US-PATENT-3,346,806	c 14	N71-21090 *
US-PATENT-3,286,630	c 31	N71-10582 *	US-PATENT-3,317,180	c 15	N71-10778 *	US-PATENT-3,346,929	c 15	N71-21076 *
US-PATENT-3,286,882	c 27	N71-29155 *	US-PATENT-3,317,341	c 18	N71-10772 *	US-PATENT-3,347,046	c 33	N71-21507 *
US-PATENT-3,286,953	c 21	N70-41856 *	US-PATENT-3,317,352	c 03	N71-10728 *	US-PATENT-3,347,309	c 33	N71-29046 *
US-PATENT-3,286,957	c 02	N70-41863 *	US-PATENT-3,317,641	c 15	N71-10672 *	US-PATENT-3,347,465	c 18	N71-21068 *
US-PATENT-3,287,031	c 15	N70-41808 *	US-PATENT-3,317,731	c 21	N71-10771 *	US-PATENT-3,347,466	c 28	N71-21493 *
US-PATENT-3,287,174	c 03	N70-41864 *	US-PATENT-3,317,751	c 09	N71-10673 *	US-PATENT-3,347,531	c 15	N71-21177 *
US-PATENT-3,287,496	c 14	N70-41807 *	US-PATENT-3,317,797	c 10	N71-28783 *	US-PATENT-3,347,665	c 17	N71-20743 *
US-PATENT-3,287,582	c 28	N70-41576 *	US-PATENT-3,317,832	c 09	N71-10659 *	US-PATENT-3,348,048	c 14	N71-21088 *
US-PATENT-3,287,640	c 09	N70-41655 *	US-PATENT-3,318,093	c 15	N71-10658 *	US-PATENT-3,348,053	c 10	N71-20782 *
US-PATENT-3,287,660	c 16	N70-41578 *	US-PATENT-3,318,096	c 28	N71-28849 *	US-PATENT-3,348,152	c 10	N71-20841 *
US-PATENT-3,287,725	c 07	N70-41680 *	US-PATENT-3,318,343	c 15	N71-10809 *	US-PATENT-3,348,218	c 10	N71-29135 *
US-PATENT-3,289,205	c 07	N70-41678 *	US-PATENT-3,318,622	c 15	N71-10799 *	US-PATENT-3,349,814	c 33	N71-20834 *
US-PATENT-3,295,380	c 14	N70-41681 *	US-PATENT-3,319,175	c 09	N71-10798 *	US-PATENT-3,350,033	c 14	N71-21082 *
US-PATENT-3,295,386	c 11	N70-41677 *	US-PATENT-3,319,979	c 15	N71-10782 *	US-PATENT-3,350,034	c 31	N71-21064 *
US-PATENT-3,295,377	c 14	N70-41682 *	US-PATENT-3,320,669	c 15	N70-42017 *	US-PATENT-3,350,643	c 07	N71-20791 *
US-PATENT-3,295,386	c 05	N70-41581 *	US-PATENT-3,321,034	c 15	N70-42034 *	US-PATENT-3,350,671	c 09	N71-20842 *
US-PATENT-3,295,512	c 03	N70-41580 *	US-PATENT-3,321,154	c 31	N70-42075 *	US-PATENT-3,350,926	c 14	N71-21091 *
US-PATENT-3,295,545	c 15	N70-41646 *	US-PATENT-3,321,157	c 02	N70-42016 *	US-PATENT-3,352,157	c 14	N71-21072 *
US-PATENT-3,295,556	c 32	N70-41579 *	US-PATENT-3,321,159	c 31	N70-42015 *	US-PATENT-3,352,192	c 15	N71-21489 *
US-PATENT-3,295,594	c 54	N82-29002 *	US-PATENT-3,321,570	c 15	N70-41960 *	US-PATENT-3,352,774	c 37	N80-14395 *
US-PATENT-3,295,684	c 28	N70-41447 *	US-PATENT-3,321,628	c 10	N70-41991 *	US-PATENT-3,353,359	c 28	N71-20942 *
US-PATENT-3,295,699	c 32	N70-41367 *	US-PATENT-3,321,645	c 10	N70-42032 *	US-PATENT-3,354,098	c 06	N71-20717 *
US-PATENT-3,295,782	c 14	N70-41647 *	US-PATENT-3,321,922	c 28	N70-41992 *	US-PATENT-3,354,320	c 23	N71-21821 *
US-PATENT-3,295,790	c 31	N70-41588 *	US-PATENT-3,323,356	c 15	N70-41993 *	US-PATENT-3,354,462	c 14	N71-21006 *
US-PATENT-3,295,798	c 02	N70-41589 *	US-PATENT-3,323,362	c 14	N70-41994 *	US-PATENT-3,355,861	c 18	N71-20742 *
US-PATENT-3,295,808	c 15	N70-41310 *	US-PATENT-3,323,370	c 05	N70-42000 *	US-PATENT-3,355,948	c 14	N71-21007 *
US-PATENT-3,296,060	c 18	N70-41583 *	US-PATENT-3,323,386	c 03	N70-42073 *	US-PATENT-3,356,320	c 05	N71-20718 *
US-PATENT-3,296,526	c 14	N70-41332 *	US-PATENT-3,323,408	c 14	N70-41955 *	US-PATENT-3,356,549	c 15	N71-21404 *
US-PATENT-3,296,531	c 07	N70-41331 *	US-PATENT-3,323,484	c 14	N70-42074 *	US-PATENT-3,356,885	c 25	N71-20747 *
US-PATENT-3,298,175	c 33	N71-29053 *	US-PATENT-3,323,967	c 15	N70-42033 *	US-PATENT-3,356,917	c 33	N79-21265 *
US-PATENT-3,298,182	c 28	N70-41311 *	US-PATENT-3,324,370	c 09	N71-10677 *	US-PATENT-3,357,024	c 12	N71-20815 *
US-PATENT-3,298,221	c 14	N70-41330 *	US-PATENT-3,324,388	c 14	N71-10797 *	US-PATENT-3,357,093	c 15	N71-21078 *
US-PATENT-3,298,285	c 32	N70-41370 *	US-PATENT-3,324,423	c 07	N71-10676 *	US-PATENT-3,357,237	c 33	N71-21586 *
US-PATENT-3,298,362	c 05	N70-41329 *	US-PATENT-3,324,659	c 28	N71-10574 *	US-PATENT-3,357,862	c 03	N71-20904 *
US-PATENT-3,298,582	c 14	N71-28935 *	US-PATENT-3,325,229	c 15	N71-10617 *	US-PATENT-3,358,264	c 09	N71-20851 *
US-PATENT-3,299,364	c 16	N71-15550 *	US-PATENT-3,325,723	c 10	N71-10578 *	US-PATENT-3,359,046	c 15	N71-20739 *
US-PATENT-3,299,431	c 07	N71-28979 *	US-PATENT-3,325,749	c 09	N71-28810 *	US-PATENT-3,359,132	c 09	N71-20705 *
US-PATENT-3,299,913	c 15	N71-15918 *	US-PATENT-3,326,043	c 14	N71-10500 *	US-PATENT-3,359,409	c 07	N71-21476 *
US-PATENT-3,300,162	c 31	N70-41373 *	US-PATENT-3,326,407	c 15	N71-10577 *	US-PATENT-3,359,435	c 15	N71-21311 *
US-PATENT-3,300,731	c 07	N70-41372 *	US-PATENT-3,327,298	c 08	N71-21042 *	US-PATENT-3,359,555	c 09	N71-20864 *
US-PATENT-3,300,847	c 15	N70-41371 *	US-PATENT-3,327,991	c 15	N71-21234 *	US-PATENT-3,359,568	c 54	N78-17680 *
US-PATENT-3,300,949	c 05	N70-41297 *	US-PATENT-3,328,624	c 28	N71-28850 *	US-PATENT-3,359,819	c 15	N71-21744 *
US-PATENT-3,300,981	c 28	N70-41275 *	US-PATENT-3,329,375	c 21	N71-21708 *	US-PATENT-3,359,855	c 23	N71-21882 *
US-PATENT-3,301,046	c 14	N70-41366 *	US-PATENT-3,329,918	c 09	N71-21583 *	US-PATENT-3,360,798	c 09	N71-20658 *
US-PATENT-3,301,315	c 09	N70-41717 *	US-PATENT-3,330,052	c 11	N71-21474 *	US-PATENT-3,360,864	c 14	N71-24693 *
US-PATENT-3,301,507	c 31	N70-41631 *	US-PATENT-3,330,082	c 15	N71-21531 *	US-PATENT-3,360,972	c 15	N71-24833 *
US-PATENT-3,301,511	c 02	N70-41630 *	US-PATENT-3,330,510	c 31	N71-28851 *	US-PATENT-3,360,980	c 14	N71-20741 *
US-PATENT-3,301,578	c 15	N70-41629 *	US-PATENT-3,330,549	c 15	N71-21530 *	US-PATENT-3,360,988	c 09	N71-20816 *
US-PATENT-3,302,023	c 14	N70-41676 *	US-PATENT-3,331,071	c 07	N71-28900 *	US-PATENT-3,361,045	c 15	N71-21060 *
US-PATENT-3,302,040	c 09	N70-41675 *	US-PATENT-3,331,246	c 11	N71-21475 *	US-PATENT-3,361,067	c 26	N71-21824 *
US-PATENT-3,302,569	c 15	N70-41679 *	US-PATENT-3,331,255	c 15	N71-21529 *	US-PATENT-3,361,400	c 15	N71-20813 *
US-PATENT-3,302,633	c 05	N70-41819 *	US-PATENT-3,331,404	c 12	N71-21089 *	US-PATENT-3,361,666	c 15	N71-21403 *
US-PATENT-3,302,662	c 15	N70-41811 *	US-PATENT-3,331,951	c 21	N71-21688 *	US-PATENT-3,361,985	c 10	N71-20852 *
US-PATENT-3,302,960	c 15	N70-41829 *	US-PATENT-3,333,152	c 25	N71-21693 *	US-PATENT-3,364,311	c 07	N71-20814 *
US-PATENT-3,303,304	c 14	N70-41812 *	US-PATENT-3,333,788	c 31	N71-21881 *	US-PATENT-3,364,366	c 09	N71-28926 *
US-PATENT-3,304,028	c 31	N70-41855 *	US-PATENT-3,334,225	c 14	N73-32325 *	US-PATENT-3,364,578	c 14	N71-21079 *
US-PATENT-3,304,718	c 28	N70-41922 *	US-PATENT-3,336,725	c 15	N71-21528 *	US-PATENT-3,364,631	c 32	N71-21045 *
US-PATENT-3,304,724	c 31	N70-41948 *	US-PATENT-3,336,748	c 25	N71-21694 *	US-PATENT-3,364,777	c 15	N71-20740 *
US-PATENT-3,304,729	c 31	N70-41871 *	US-PATENT-3,336,754	c 28	N71-22983 *	US-PATENT-3,364,813	c 09	N71-22999 *
US-PATENT-3,304,768	c 32	N70-42003 *	US-PATENT-3,337,004	c 14	N71-23092 *	US-PATENT-3,365,657	c 10	N71-22961 *
US-PATENT-3,304,773	c 14	N70-41957 *	US-PATENT-3,337,279	c 05	N71-23080 *	US-PATENT-3,365,665	c 14	N71-23037 *
US-PATENT-3,304,799	c 03	N70-41954 *	US-PATENT-3,337,315	c 18	N71-23088 *	US-PATENT-3,365,897	c 33	N71-28892 *
US-PATENT-3,304,865	c 28	N70-41967 *	US-PATENT-3,337,337	c 18	N71-22894 *	US-PATENT-3,365,930	c 14	N71-22964 *
US-PATENT-3,305,415	c 27	N70-41897 *	US-PATENT-3,337,790	c 12	N71-20896 *	US-PATENT-3,365,941	c 14	N71-22965 *
US-PATENT-3,305,636	c 08	N70-41961 *	US-PATENT-3,337,812	c 09	N71-23097 *	US-PATENT-3,366,886	c 10	N71-22962 *
US-PATENT-3,305,801	c 10	N70-41964 *	US-PATENT-3,339,404	c 14	N71-22765 *	US-PATENT-3,366,894	c 10	N71-23084 *
US-PATENT-3,305,810	c 09	N70-41929 *	US-PATENT-3,339,863	c 14	N71-23040 *	US-PATENT-3,367,114	c 28	N71-23081 *
US-PATENT-3,305,861	c 21	N70-41930 *	US-PATENT-3,340,099	c 03	N71-23006 *	US-PATENT-3,367,121	c 15	N71-23025 *
US-PATENT-3,305,870	c 07	N71-15907 *	US-PATENT-3,340,395	c 14	N71-23041 *	US-PATENT-3,367,182	c 33	N71-23085 *
US-PATENT-3,306,134	c 37	N78-17385 *	US-PATENT-3,340,397	c 11	N71-23042 *	US-PATENT-3,367,224	c 15	N71-22798 *
US-PATENT-3,308,848	c 12	N71-16031 *	US-PATENT-3,340,430	c 09	N71-22796 *	US-PATENT-3,367,271	c 15	N71-24042 *
US-PATENT-3,309,012	c 33	N71-17610 *	US-PATENT-3,340,532	c 10	N71-21473 *	US-PATENT-3,367,308	c 11	N71-22875 *
US-PATENT-3,309,961	c 15	N71-16078 *	US-PATENT-3,340,599	c 09	N71-23027 *	US-PATENT-3,367,445	c 15	N71-23048 *
US-PATENT-3,310,054	c 08	N71-15908 *	US-PATENT-3,340,713	c 15	N71-22723 *	US-PATENT-3,368,486	c 15	N71-22874 *
US-PATENT-3,310,138	c 12	N71-16894 *	US-PATENT-3,340,732	c 02	N71-23007 *	US-PATENT-3,369,222	c 08	N71-22707 *
US-PATENT-3,310,256	c 31	N71-17679 *	US-PATENT-3,341,151	c 31	N71-23009 *	US-PATENT-3,369,223	c 08	N71-22710 *
US-PATENT-3,310,258	c 31	N71-17691 *	US-PATENT-3,341,169	c 15	N71-23024 *	US-PATENT-3,369,564	c 15	N71-23051 *

US-PATENT-3,370,039	c 06	N71-28807 *	US-PATENT-3,397,932	c 15	N71-22982 *	US-PATENT-3,425,131	c 15	N71-19489 *
US-PATENT-3,372,588	c 33	N71-29051 *	US-PATENT-3,399,299	c 10	N71-23662 *	US-PATENT-3,425,268	c 14	N69-39975 *
US-PATENT-3,373,016	c 26	N75-27127 *	US-PATENT-3,399,574	c 32	N71-24285 *	US-PATENT-3,425,272	c 14	N71-20439 *
US-PATENT-3,373,069	c 15	N71-23052 *	US-PATENT-3,402,265	c 09	N73-28084 *	US-PATENT-3,425,276	c 14	N69-24257 *
US-PATENT-3,373,404	c 08	N71-22749 *	US-PATENT-3,404,289	c 09	N71-23545 *	US-PATENT-3,425,486	c 05	N71-24147 *
US-PATENT-3,373,430	c 09	N71-22888 *	US-PATENT-3,404,348	c 32	N74-22096 *	US-PATENT-3,425,487	c 05	N71-19439 *
US-PATENT-3,373,431	c 07	N71-22750 *	US-PATENT-3,405,406	c 05	N71-23161 *	US-PATENT-3,425,885	c 15	N69-24322 *
US-PATENT-3,373,640	c 15	N71-22722 *	US-PATENT-3,405,887	c 31	N71-24315 *	US-PATENT-3,426,219	c 09	N69-24317 *
US-PATENT-3,373,914	c 15	N71-23050 *	US-PATENT-3,406,336	c 10	N71-24863 *	US-PATENT-3,426,230	c 15	N69-24319 *
US-PATENT-3,374,339	c 08	N71-22897 *	US-PATENT-3,406,742	c 33	N71-24276 *	US-PATENT-3,426,263	c 03	N71-19438 *
US-PATENT-3,374,366	c 09	N71-23015 *	US-PATENT-3,407,304	c 14	N71-23240 *	US-PATENT-3,426,272	c 14	N69-39785 *
US-PATENT-3,374,830	c 33	N71-22890 *	US-PATENT-3,408,816	c 28	N71-24736 *	US-PATENT-3,426,746	c 05	N71-26293 *
US-PATENT-3,375,451	c 10	N71-22986 *	US-PATENT-3,408,870	c 14	N71-23227 *	US-PATENT-3,426,791	c 15	N71-19569 *
US-PATENT-3,375,479	c 15	N71-23049 *	US-PATENT-3,409,247	c 33	N71-28903 *	US-PATENT-3,427,047	c 15	N69-27490 *
US-PATENT-3,375,712	c 35	N75-29382 *	US-PATENT-3,409,252	c 15	N71-23255 *	US-PATENT-3,427,089	c 23	N69-24332 *
US-PATENT-3,375,885	c 15	N73-32362 *	US-PATENT-3,409,554	c 26	N71-23292 *	US-PATENT-3,427,093	c 09	N71-19479 *
US-PATENT-3,376,730	c 14	N71-22995 *	US-PATENT-3,409,730	c 33	N71-24145 *	US-PATENT-3,427,097	c 11	N69-24321 *
US-PATENT-3,377,208	c 14	N71-23039 *	US-PATENT-3,411,356	c 14	N71-23226 *	US-PATENT-3,427,205	c 15	N69-24320 *
US-PATENT-3,377,845	c 14	N71-22992 *	US-PATENT-3,411,900	c 26	N75-27126 *	US-PATENT-3,427,435	c 17	N69-25147 *
US-PATENT-3,378,315	c 15	N71-22997 *	US-PATENT-3,412,559	c 28	N71-23293 *	US-PATENT-3,427,454	c 05	N71-19440 *
US-PATENT-3,378,657	c 33	N79-33392 *	US-PATENT-3,412,598	c 14	N71-23225 *	US-PATENT-3,427,525	c 03	N69-21330 *
US-PATENT-3,378,851	c 05	N71-23096 *	US-PATENT-3,412,729	c 04	N71-23185 *	US-PATENT-3,428,761	c 09	N69-24329 *
US-PATENT-3,378,892	c 15	N71-22994 *	US-PATENT-3,412,961	c 32	N71-23971 *	US-PATENT-3,428,812	c 14	N69-27485 *
US-PATENT-3,379,052	c 14	N73-32321 *	US-PATENT-3,413,115	c 17	N71-23365 *	US-PATENT-3,428,847	c 15	N69-24266 *
US-PATENT-3,379,064	c 14	N71-23093 *	US-PATENT-3,413,393	c 17	N71-29137 *	US-PATENT-3,428,910	c 09	N69-24330 *
US-PATENT-3,379,330	c 23	N71-22881 *	US-PATENT-3,413,510	c 09	N71-23190 *	US-PATENT-3,428,919	c 07	N69-24334 *
US-PATENT-3,379,885	c 09	N71-22985 *	US-PATENT-3,413,536	c 03	N71-24605 *	US-PATENT-3,428,923	c 07	N69-27462 *
US-PATENT-3,379,974	c 14	N71-22990 *	US-PATENT-3,414,012	c 09	N71-23191 *	US-PATENT-3,429,058	c 12	N69-39988 *
US-PATENT-3,380,042	c 07	N71-23001 *	US-PATENT-3,414,358	c 14	N71-23175 *	US-PATENT-3,429,177	c 06	N69-39733 *
US-PATENT-3,380,049	c 10	N71-23099 *	US-PATENT-3,415,032	c 15	N71-23256 *	US-PATENT-3,429,477	c 15	N69-27502 *
US-PATENT-3,381,339	c 06	N71-22975 *	US-PATENT-3,415,069	c 15	N71-24044 *	US-PATENT-3,429,756	c 76	N79-21910 *
US-PATENT-3,381,517	c 09	N71-22988 *	US-PATENT-3,415,116	c 14	N71-23790 *	US-PATENT-3,430,063	c 09	N69-27500 *
US-PATENT-3,381,527	c 15	N71-22878 *	US-PATENT-3,415,126	c 21	N71-23289 *	US-PATENT-3,430,115	c 09	N69-24318 *
US-PATENT-3,381,569	c 21	N71-22880 *	US-PATENT-3,415,156	c 15	N71-24043 *	US-PATENT-3,430,131	c 24	N71-20518 *
US-PATENT-3,381,778	c 15	N71-22877 *	US-PATENT-3,415,643	c 17	N71-23248 *	US-PATENT-3,430,182	c 14	N69-27431 *
US-PATENT-3,382,082	c 18	N71-22998 *	US-PATENT-3,416,106	c 09	N71-24808 *	US-PATENT-3,430,227	c 08	N71-19687 *
US-PATENT-3,382,105	c 03	N71-29044 *	US-PATENT-3,416,274	c 31	N71-24035 *	US-PATENT-3,430,237	c 07	N69-39974 *
US-PATENT-3,382,107	c 03	N71-22974 *	US-PATENT-3,416,939	c 18	N71-24183 *	US-PATENT-3,430,460	c 15	N69-27505 *
US-PATENT-3,382,714	c 14	N71-22989 *	US-PATENT-3,416,975	c 17	N71-23828 *	US-PATENT-3,430,902	c 14	N69-27486 *
US-PATENT-3,383,461	c 07	N71-23026 *	US-PATENT-3,416,988	c 15	N71-24164 *	US-PATENT-3,430,909	c 11	N69-27466 *
US-PATENT-3,383,524	c 10	N71-23029 *	US-PATENT-3,417,247	c 14	N71-23797 *	US-PATENT-3,430,937	c 15	N69-27483 *
US-PATENT-3,383,903	c 14	N71-23036 *	US-PATENT-3,417,266	c 09	N71-23270 *	US-PATENT-3,430,942	c 15	N69-27504 *
US-PATENT-3,383,922	c 14	N71-22752 *	US-PATENT-3,417,298	c 10	N71-23271 *	US-PATENT-3,431,149	c 14	N69-27459 *
US-PATENT-3,384,016	c 31	N71-23008 *	US-PATENT-3,417,316	c 14	N71-23174 *	US-PATENT-3,431,397	c 15	N69-27871 *
US-PATENT-3,384,075	c 05	N71-22896 *	US-PATENT-3,417,321	c 09	N71-23316 *	US-PATENT-3,431,460	c 09	N71-23189 *
US-PATENT-3,384,111	c 15	N71-22706 *	US-PATENT-3,417,332	c 07	N71-23405 *	US-PATENT-3,431,559	c 09	N69-24333 *
US-PATENT-3,384,324	c 33	N71-22792 *	US-PATENT-3,417,399	c 30	N71-23723 *	US-PATENT-3,432,730	c 09	N69-27422 *
US-PATENT-3,384,820	c 09	N71-23021 *	US-PATENT-3,417,400	c 07	N71-28809 *	US-PATENT-3,433,015	c 28	N71-20330 *
US-PATENT-3,384,895	c 07	N71-22984 *	US-PATENT-3,419,329	c 14	N71-23268 *	US-PATENT-3,433,079	c 14	N69-27503 *
US-PATENT-3,385,036	c 15	N71-22721 *	US-PATENT-3,419,363	c 18	N71-23710 *	US-PATENT-3,433,662	c 14	N71-20461 *
US-PATENT-3,385,337	c 15	N71-22799 *	US-PATENT-3,419,384	c 17	N73-28573 *	US-PATENT-3,433,818	c 06	N71-23230 *
US-PATENT-3,386,685	c 31	N71-22968 *	US-PATENT-3,419,433	c 03	N71-23187 *	US-PATENT-3,433,909	c 10	N71-23663 *
US-PATENT-3,386,686	c 31	N71-22969 *	US-PATENT-3,419,531	c 27	N79-21191 *	US-PATENT-3,433,953	c 14	N69-27484 *
US-PATENT-3,387,149	c 14	N71-22993 *	US-PATENT-3,419,537	c 06	N71-23500 *	US-PATENT-3,433,960	c 16	N69-27491 *
US-PATENT-3,387,218	c 37	N78-17386 *	US-PATENT-3,419,827	c 09	N71-23548 *	US-PATENT-3,433,961	c 14	N69-27432 *
US-PATENT-3,388,258	c 14	N71-22996 *	US-PATENT-3,419,964	c 14	N69-21363 *	US-PATENT-3,434,033	c 09	N69-39984 *
US-PATENT-3,388,387	c 10	N71-23033 *	US-PATENT-3,419,992	c 14	N71-23401 *	US-PATENT-3,434,037	c 10	N71-26414 *
US-PATENT-3,388,590	c 14	N71-23087 *	US-PATENT-3,420,069	c 15	N69-21465 *	US-PATENT-3,434,050	c 09	N71-20569 *
US-PATENT-3,389,017	c 15	N71-23022 *	US-PATENT-3,420,223	c 05	N69-21925 *	US-PATENT-3,434,064	c 09	N69-39986 *
US-PATENT-3,389,260	c 14	N71-23269 *	US-PATENT-3,420,225	c 05	N69-21473 *	US-PATENT-3,434,855	c 18	N71-24184 *
US-PATENT-3,389,346	c 10	N71-28859 *	US-PATENT-3,420,253	c 12	N69-21466 *	US-PATENT-3,434,885	c 03	N71-20492 *
US-PATENT-3,389,877	c 15	N71-28936 *	US-PATENT-3,420,338	c 15	N71-26243 *	US-PATENT-3,435,246	c 14	N69-24331 *
US-PATENT-3,390,017	c 03	N71-23336 *	US-PATENT-3,420,471	c 05	N69-21380 *	US-PATENT-3,437,394	c 14	N69-27461 *
US-PATENT-3,390,020	c 26	N71-23654 *	US-PATENT-3,420,704	c 15	N69-21460 *	US-PATENT-3,437,527	c 03	N69-24267 *
US-PATENT-3,390,023	c 26	N75-29236 *	US-PATENT-3,420,945	c 09	N69-21542 *	US-PATENT-3,437,560	c 04	N69-27487 *
US-PATENT-3,390,282	c 09	N71-23311 *	US-PATENT-3,420,978	c 15	N69-21471 *	US-PATENT-3,437,818	c 03	N71-23354 *
US-PATENT-3,390,378	c 08	N71-23295 *	US-PATENT-3,421,004	c 14	N71-19568 *	US-PATENT-3,437,832	c 09	N69-27463 *
US-PATENT-3,390,528	c 20	N79-21124 *	US-PATENT-3,421,053	c 15	N69-21472 *	US-PATENT-3,437,874	c 08	N71-20571 *
US-PATENT-3,391,080	c 15	N71-24046 *	US-PATENT-3,421,056	c 14	N69-23191 *	US-PATENT-3,437,903	c 03	N69-25146 *
US-PATENT-3,391,403	c 23	N71-23976 *	US-PATENT-3,421,105	c 09	N69-21543 *	US-PATENT-3,437,919	c 14	N69-27423 *
US-PATENT-3,392,586	c 14	N71-24232 *	US-PATENT-3,421,134	c 09	N69-21470 *	US-PATENT-3,437,935	c 09	N69-24324 *
US-PATENT-3,392,864	c 18	N71-23658 *	US-PATENT-3,421,331	c 15	N69-23190 *	US-PATENT-3,437,959	c 07	N69-24323 *
US-PATENT-3,392,865	c 15	N71-23816 *	US-PATENT-3,421,363	c 11	N69-21540 *	US-PATENT-3,438,044	c 07	N69-27460 *
US-PATENT-3,392,936	c 01	N71-23497 *	US-PATENT-3,421,506	c 05	N69-23192 *	US-PATENT-3,438,263	c 14	N71-20435 *
US-PATENT-3,393,059	c 06	N71-23499 *	US-PATENT-3,421,541	c 15	N69-21924 *	US-PATENT-3,439,886	c 31	N69-27499 *
US-PATENT-3,393,330	c 22	N71-23599 *	US-PATENT-3,421,549	c 03	N69-21469 *	US-PATENT-3,440,419	c 14	N73-28491 *
US-PATENT-3,393,332	c 09	N71-23443 *	US-PATENT-3,421,591	c 14	N69-21923 *	US-PATENT-3,442,674	c 25	N82-29370 *
US-PATENT-3,393,347	c 10	N71-23543 *	US-PATENT-3,421,700	c 15	N69-23185 *	US-PATENT-3,443,128	c 03	N69-39989 *
US-PATENT-3,393,380	c 10	N71-23544 *	US-PATENT-3,421,768	c 15	N69-21362 *	US-PATENT-3,443,208	c 14	N71-20428 *
US-PATENT-3,393,384	c 09	N71-23573 *	US-PATENT-3,421,864	c 17	N71-23046 *	US-PATENT-3,443,384	c 28	N71-24321 *
US-PATENT-3,394,286	c 14	N73-30391 *	US-PATENT-3,421,948	c 03	N69-21337 *	US-PATENT-3,443,390	c 11	N71-24964 *
US-PATENT-3,394,359	c 08	N71-28925 *	US-PATENT-3,422,213	c 03	N69-21539 *	US-PATENT-3,443,412	c 15	N71-23811 *
US-PATENT-3,394,975	c 23	N71-30027 *	US-PATENT-3,422,278	c 09	N69-21468 *	US-PATENT-3,443,416	c 06	N69-39936 *
US-PATENT-3,395,053	c 18	N71-23047 *	US-PATENT-3,422,291	c 25	N69-21929 *	US-PATENT-3,443,472	c 15	N71-23254 *
US-PATENT-3,395,565	c 14	N73-30390 *	US-PATENT-3,422,324	c 14	N69-21541 *	US-PATENT-3,443,583	c 14	N71-18625 *
US-PATENT-3,396,057	c 26	N71-23043 *	US-PATENT-3,422,352	c 14	N71-19431 *	US-PATENT-3,443,584	c 32	N71-16106 *
US-PATENT-3,396,184	c 06	N71-28808 *	US-PATENT-3,422,354	c 09	N69-21926 *	US-PATENT-3,443,732	c 15	N71-15607 *
US-PATENT-3,396,303	c 09	N71-22987 *	US-PATENT-3,422,390	c 09	N69-21927 *	US-PATENT-3,443,773	c 31	N71-23912 *
US-PATENT-3,396,584	c 14	N71-30026 *	US-PATENT-3,422,403	c 08	N69-21928 *	US-PATENT-3,443,779	c 01	N69-39981 *
US-PATENT-3,396,719	c 52	N79-21750 *	US-PATENT-3,422,440	c 09	N69-21467 *	US-PATENT-3,444,051	c 05	N71-11207 *
US-PATENT-3,396,920	c 31	N71-29050 *	US-PATENT-3,423,179	c 15	N69-21922 *	US-PATENT-3,444,127	c 06	N71-11237 *
US-PATENT-3,397,094	c 26	N71-29156 *	US-PATENT-3,423,290	c 06	N71-17705 *	US-PATENT-3,444,375	c 14	N71-15599 *
US-PATENT-3,397,117	c 15	N71-23086 *	US-PATENT-3,423,578	c 09	N71-19480 *	US-PATENT-3,444,380	c 07	N69-39980 *
US-PATENT-3,397,318	c 14	N71-22991 *	US-PATENT-3,423,608	c 09	N69-21313 *	US-PATENT-3,446,075	c 14	N73-30394 *
US-PATENT-3,397,512	c 15	N71-23023 *	US-PATENT-3,423,627	c 33	N78-17293 *	US-PATENT-3,446,387	c 15	N69-39935 *
US-PATENT-3,397,537	c 20	N79-21125 *	US-PATENT-3,424,966	c 10	N71-20448 *	US-PATENT-3,446,558	c 16	N71-24074 *

US-PATENT-3,446,642	c 18	N69-39895 *	US-PATENT-3,469,436	c 15	N71-23817 *	US-PATENT-3,493,153	c 05	N71-12351 *
US-PATENT-3,446,676	c 03	N71-11050 *	US-PATENT-3,469,437	c 14	N71-24234 *	US-PATENT-3,493,155	c 26	N71-14354 *
US-PATENT-3,446,960	c 14	N69-39982 *	US-PATENT-3,469,734	c 11	N71-17600 *	US-PATENT-3,493,194	c 21	N71-14132 *
US-PATENT-3,446,992	c 09	N69-39987 *	US-PATENT-3,470,043	c 15	N71-24047 *	US-PATENT-3,493,197	c 02	N71-11043 *
US-PATENT-3,446,997	c 03	N69-39988 *	US-PATENT-3,470,304	c 14	N71-23267 *	US-PATENT-3,493,291	c 14	N71-15622 *
US-PATENT-3,446,998	c 09	N69-39929 *	US-PATENT-3,470,313	c 07	N71-26579 *	US-PATENT-3,493,294	c 14	N71-15605 *
US-PATENT-3,447,003	c 09	N71-20446 *	US-PATENT-3,470,318	c 07	N71-24612 *	US-PATENT-3,493,401	c 18	N71-14014 *
US-PATENT-3,447,015	c 06	N69-39889 *	US-PATENT-3,470,342	c 09	N71-19610 *	US-PATENT-3,493,415	c 15	N71-15610 *
US-PATENT-3,447,071	c 25	N69-39884 *	US-PATENT-3,470,443	c 03	N71-23239 *	US-PATENT-3,493,437	c 03	N71-11056 *
US-PATENT-3,447,154	c 21	N71-11766 *	US-PATENT-3,470,446	c 09	N71-23188 *	US-PATENT-3,493,522	c 06	N71-11243 *
US-PATENT-3,447,155	c 09	N71-18598 *	US-PATENT-3,470,466	c 14	N71-23699 *	US-PATENT-3,493,524	c 06	N71-11242 *
US-PATENT-3,447,233	c 15	N69-39786 *	US-PATENT-3,470,475	c 10	N71-19467 *	US-PATENT-3,493,665	c 14	N71-15621 *
US-PATENT-3,447,774	c 15	N71-19485 *	US-PATENT-3,470,489	c 09	N71-23598 *	US-PATENT-3,493,677	c 07	N71-11300 *
US-PATENT-3,447,850	c 09	N71-18600 *	US-PATENT-3,470,495	c 10	N71-23669 *	US-PATENT-3,493,711	c 15	N71-14932 *
US-PATENT-3,448,273	c 07	N69-39736 *	US-PATENT-3,470,496	c 09	N71-19470 *	US-PATENT-3,493,746	c 15	N71-15606 *
US-PATENT-3,448,290	c 10	N71-23315 *	US-PATENT-3,471,856	c 30	N71-16090 *	US-PATENT-3,493,797	c 15	N71-17652 *
US-PATENT-3,448,341	c 09	N71-12526 *	US-PATENT-3,471,858	c 07	N71-12391 *	US-PATENT-3,493,805	c 09	N71-12521 *
US-PATENT-3,448,346	c 15	N71-18701 *	US-PATENT-3,472,019	c 10	N71-26326 *	US-PATENT-3,493,901	c 09	N71-12517 *
US-PATENT-3,450,842	c 07	N69-39978 *	US-PATENT-3,472,059	c 14	N71-23755 *	US-PATENT-3,493,929	c 08	N71-12505 *
US-PATENT-3,450,878	c 14	N71-20430 *	US-PATENT-3,472,060	c 14	N71-26136 *	US-PATENT-3,493,942	c 08	N71-12504 *
US-PATENT-3,450,946	c 09	N69-39897 *	US-PATENT-3,472,069	c 15	N71-20441 *	US-PATENT-3,495,260	c 21	N71-13958 *
US-PATENT-3,452,103	c 06	N73-30101 *	US-PATENT-3,472,080	c 10	N71-26339 *	US-PATENT-3,495,262	c 07	N71-12396 *
US-PATENT-3,452,423	c 26	N71-16037 *	US-PATENT-3,472,086	c 15	N71-23809 *	US-PATENT-3,498,840	c 44	N82-24642 *
US-PATENT-3,452,872	c 14	N69-39896 *	US-PATENT-3,472,140	c 14	N71-26474 *	US-PATENT-3,498,841	c 44	N82-24641 *
US-PATENT-3,453,172	c 15	N69-39735 *	US-PATENT-3,472,202	c 17	N71-24911 *	US-PATENT-3,500,020	c 01	N71-13411 *
US-PATENT-3,453,462	c 03	N69-39983 *	US-PATENT-3,472,372	c 15	N71-20440 *	US-PATENT-3,500,525	c 15	N71-17688 *
US-PATENT-3,453,546	c 05	N71-12342 *	US-PATENT-3,472,470	c 02	N71-20570 *	US-PATENT-3,500,677	c 14	N71-17584 *
US-PATENT-3,453,878	c 09	N79-21083 *	US-PATENT-3,472,577	c 23	N71-24857 *	US-PATENT-3,500,686	c 12	N71-17569 *
US-PATENT-3,454,410	c 18	N69-39979 *	US-PATENT-3,472,625	c 06	N71-23527 *	US-PATENT-3,500,688	c 14	N71-17587 *
US-PATENT-3,454,766	c 35	N75-27329 *	US-PATENT-3,472,629	c 14	N71-20442 *	US-PATENT-3,500,747	c 09	N71-18599 *
US-PATENT-3,455,121	c 14	N71-20427 *	US-PATENT-3,472,698	c 03	N71-23449 *	US-PATENT-3,500,827	c 05	N71-11203 *
US-PATENT-3,455,171	c 23	N71-16098 *	US-PATENT-3,472,709	c 18	N71-26153 *	US-PATENT-3,501,112	c 15	N71-17693 *
US-PATENT-3,456,112	c 14	N69-39937 *	US-PATENT-3,472,742	c 17	N71-24830 *	US-PATENT-3,501,632	c 27	N71-16348 *
US-PATENT-3,456,193	c 08	N71-19763 *	US-PATENT-3,472,998	c 16	N71-20400 *	US-PATENT-3,501,641	c 20	N71-16340 *
US-PATENT-3,456,201	c 09	N69-39885 *	US-PATENT-3,473,050	c 09	N71-20447 *	US-PATENT-3,501,648	c 10	N71-24799 *
US-PATENT-3,458,104	c 15	N71-20393 *	US-PATENT-3,473,116	c 25	N71-20563 *	US-PATENT-3,501,649	c 10	N71-18723 *
US-PATENT-3,458,313	c 14	N71-17574 *	US-PATENT-3,473,165	c 05	N71-26333 *	US-PATENT-3,501,664	c 14	N71-17585 *
US-PATENT-3,458,651	c 09	N71-19449 *	US-PATENT-3,473,216	c 15	N71-20443 *	US-PATENT-3,501,683	c 15	N71-17694 *
US-PATENT-3,458,702	c 14	N71-18699 *	US-PATENT-3,473,379	c 12	N71-26387 *	US-PATENT-3,501,684	c 09	N71-26092 *
US-PATENT-3,458,726	c 10	N69-39888 *	US-PATENT-3,473,758	c 03	N71-20273 *	US-PATENT-3,501,701	c 08	N71-18692 *
US-PATENT-3,458,833	c 10	N71-19418 *	US-PATENT-3,474,192	c 07	N71-26102 *	US-PATENT-3,501,704	c 07	N71-11282 *
US-PATENT-3,458,851	c 09	N69-39734 *	US-PATENT-3,474,220	c 15	N71-19486 *	US-PATENT-3,501,712	c 09	N71-19516 *
US-PATENT-3,459,391	c 03	N71-11058 *	US-PATENT-3,474,328	c 14	N71-26266 *	US-PATENT-3,501,743	c 09	N71-18843 *
US-PATENT-3,460,378	c 14	N71-24233 *	US-PATENT-3,474,357	c 09	N71-20445 *	US-PATENT-3,501,750	c 08	N71-19288 *
US-PATENT-3,460,379	c 15	N71-24834 *	US-PATENT-3,474,413	c 10	N71-26103 *	US-PATENT-3,501,752	c 08	N71-18595 *
US-PATENT-3,460,381	c 14	N71-23725 *	US-PATENT-3,474,441	c 08	N71-19544 *	US-PATENT-3,501,764	c 10	N71-18722 *
US-PATENT-3,460,397	c 15	N71-24045 *	US-PATENT-3,475,384	c 06	N73-30103 *	US-PATENT-3,502,051	c 15	N71-17647 *
US-PATENT-3,460,759	c 28	N71-23968 *	US-PATENT-3,475,442	c 26	N75-27125 *	US-PATENT-3,502,074	c 05	N71-11190 *
US-PATENT-3,460,781	c 14	N71-23698 *	US-PATENT-3,475,675	c 33	N78-17295 *	US-PATENT-3,502,141	c 33	N71-16277 *
US-PATENT-3,460,995	c 03	N71-20407 *	US-PATENT-3,478,514	c 37	N77-22479 *	US-PATENT-3,503,251	c 32	N71-16428 *
US-PATENT-3,461,290	c 14	N71-26475 *	US-PATENT-3,480,789	c 10	N71-26626 *	US-PATENT-3,504,258	c 10	N71-18724 *
US-PATENT-3,461,393	c 10	N71-26415 *	US-PATENT-3,481,638	c 15	N71-26312 *	US-PATENT-3,504,983	c 23	N71-16341 *
US-PATENT-3,461,437	c 10	N71-26434 *	US-PATENT-3,481,802	c 31	N79-21226 *	US-PATENT-3,506,496	c 44	N82-24645 *
US-PATENT-3,461,700	c 15	N71-26346 *	US-PATENT-3,481,887	c 18	N71-26155 *	US-PATENT-3,507,034	c 15	N71-17650 *
US-PATENT-3,461,721	c 12	N71-20436 *	US-PATENT-3,482,179	c 10	N71-26331 *	US-PATENT-3,507,114	c 27	N71-16392 *
US-PATENT-3,461,855	c 05	N71-20268 *	US-PATENT-3,483,535	c 10	N71-26418 *	US-PATENT-3,507,146	c 05	N71-11202 *
US-PATENT-3,463,001	c 14	N71-20429 *	US-PATENT-3,484,712	c 10	N71-26374 *	US-PATENT-3,507,150	c 20	N71-16281 *
US-PATENT-3,463,563	c 15	N71-23812 *	US-PATENT-3,485,290	c 20	N79-21123 *	US-PATENT-3,507,425	c 15	N71-17628 *
US-PATENT-3,463,673	c 03	N71-20491 *	US-PATENT-3,486,123	c 16	N71-24831 *	US-PATENT-3,507,436	c 08	N71-19420 *
US-PATENT-3,463,679	c 17	N71-24142 *	US-PATENT-3,487,216	c 14	N71-24809 *	US-PATENT-3,507,704	c 03	N71-11052 *
US-PATENT-3,463,761	c 06	N73-30099 *	US-PATENT-3,487,281	c 15	N71-24695 *	US-PATENT-3,507,706	c 03	N71-18698 *
US-PATENT-3,463,762	c 06	N73-30100 *	US-PATENT-3,487,288	c 10	N71-25139 *	US-PATENT-3,508,036	c 08	N71-18693 *
US-PATENT-3,463,939	c 10	N71-19471 *	US-PATENT-3,487,680	c 15	N71-17696 *	US-PATENT-3,508,039	c 08	N71-19437 *
US-PATENT-3,464,012	c 14	N71-26244 *	US-PATENT-3,487,765	c 54	N78-17679 *	US-PATENT-3,508,053	c 09	N71-18830 *
US-PATENT-3,464,016	c 10	N71-19472 *	US-PATENT-3,488,103	c 14	N71-15604 *	US-PATENT-3,508,070	c 03	N71-11057 *
US-PATENT-3,464,018	c 09	N71-23525 *	US-PATENT-3,488,123	c 14	N71-17627 *	US-PATENT-3,508,152	c 07	N71-11266 *
US-PATENT-3,464,049	c 32	N71-15974 *	US-PATENT-3,488,414	c 15	N71-17803 *	US-PATENT-3,508,156	c 07	N71-11267 *
US-PATENT-3,464,051	c 15	N71-17685 *	US-PATENT-3,488,461	c 09	N71-12518 *	US-PATENT-3,508,347	c 05	N71-24606 *
US-PATENT-3,465,482	c 31	N71-16080 *	US-PATENT-3,488,504	c 21	N71-15642 *	US-PATENT-3,508,402	c 33	N71-16104 *
US-PATENT-3,465,567	c 15	N71-18579 *	US-PATENT-3,488,771	c 54	N78-17678 *	US-PATENT-3,508,541	c 05	N71-11193 *
US-PATENT-3,465,569	c 14	N71-17659 *	US-PATENT-3,490,074	c 54	N78-17677 *	US-PATENT-3,508,578	c 32	N71-16103 *
US-PATENT-3,465,584	c 14	N71-23726 *	US-PATENT-3,490,130	c 05	N71-12345 *	US-PATENT-3,508,723	c 31	N71-16222 *
US-PATENT-3,465,638	c 11	N71-18578 *	US-PATENT-3,490,205	c 14	N71-17588 *	US-PATENT-3,508,724	c 02	N71-11037 *
US-PATENT-3,465,986	c 31	N71-20396 *	US-PATENT-3,490,235	c 28	N71-14044 *	US-PATENT-3,508,739	c 15	N71-17648 *
US-PATENT-3,466,052	c 15	N71-19570 *	US-PATENT-3,490,238	c 15	N70-22192 *	US-PATENT-3,508,779	c 15	N71-24897 *
US-PATENT-3,466,085	c 05	N71-12343 *	US-PATENT-3,490,405	c 15	N71-15597 *	US-PATENT-3,508,940	c 18	N71-16124 *
US-PATENT-3,466,198	c 03	N71-19545 *	US-PATENT-3,490,440	c 05	N71-12346 *	US-PATENT-3,508,955	c 18	N71-16105 *
US-PATENT-3,466,243	c 15	N71-23810 *	US-PATENT-3,490,718	c 33	N71-14035 *	US-PATENT-3,508,999	c 15	N71-17687 *
US-PATENT-3,466,418	c 15	N71-18613 *	US-PATENT-3,490,719	c 21	N71-14159 *	US-PATENT-3,509,034	c 14	N71-17575 *
US-PATENT-3,466,424	c 15	N71-20395 *	US-PATENT-3,490,721	c 02	N71-11039 *	US-PATENT-3,509,386	c 03	N71-11055 *
US-PATENT-3,466,459	c 09	N71-26000 *	US-PATENT-3,490,939	c 33	N71-14032 *	US-PATENT-3,509,419	c 24	N71-16213 *
US-PATENT-3,466,484	c 14	N71-18482 *	US-PATENT-3,490,965	c 09	N71-12513 *	US-PATENT-3,509,469	c 23	N71-16099 *
US-PATENT-3,466,560	c 09	N71-19466 *	US-PATENT-3,491,202	c 07	N71-12392 *	US-PATENT-3,509,475	c 09	N71-24596 *
US-PATENT-3,466,570	c 10	N71-25950 *	US-PATENT-3,491,255	c 09	N71-12514 *	US-PATENT-3,509,491	c 09	N71-18721 *
US-PATENT-3,467,837	c 05	N71-23317 *	US-PATENT-3,491,335	c 14	N71-15620 *	US-PATENT-3,509,551	c 08	N71-18694 *
US-PATENT-3,468,303	c 09	N71-26002 *	US-PATENT-3,491,857	c 14	N71-17626 *	US-PATENT-3,509,558	c 08	N71-19435 *
US-PATENT-3,468,548	c 15	N71-26294 *	US-PATENT-3,492,176	c 27	N71-14090 *	US-PATENT-3,509,570	c 09	N71-18720 *
US-PATENT-3,468,609	c 16	N71-24170 *	US-PATENT-3,492,672	c 05	N71-12344 *	US-PATENT-3,509,578	c 07	N71-19493 *
US-PATENT-3,468,727	c 14	N71-25892 *	US-PATENT-3,492,739	c 15	N71-15571 *	US-PATENT-3,511,680	c 31	N79-21227 *
US-PATENT-3,468,765	c 17	N71-25903 *	US-PATENT-3,492,858	c 35	N78-17358 *	US-PATENT-3,512,009	c 08	N71-18751 *
US-PATENT-3,469,068	c 15	N71-23815 *	US-PATENT-3,492,862	c 14	N71-15600 *	US-PATENT-3,514,785	c 54	N78-18761 *
US-PATENT-3,469,069	c 15	N71-23798 *	US-PATENT-3,492,947	c 28	N71-14058 *	US-PATENT-3,516,091	c 05	N71-24623 *
US-PATENT-3,469,087	c 16	N71-25914 *	US-PATENT-3,493,003	c 15	N71-15609 *	US-PATENT-3,516,179	c 11	N71-19494 *
US-PATENT-3,469,143	c 33	N75-29318 *	US-PATENT-3,493,004	c 12	N71-17579 *	US-PATENT-3,516,185	c 12	N71-18603 *
US-PATENT-3,469,289	c 15	N71-25975 *	US-PATENT-3,493,012	c 15	N71-15608 *	US-PATENT-3,516,284	c 12	N71-17573 *
US-PATENT-3,469,375	c 14	N71-18483 *	US-PATENT-3,493,027	c 31	N71-18611 *	US-PATENT-3,516,404	c 05	N71-17599 *

US-PATENT-3,516,711	c 05	N71-12341 *	US-PATENT-3,534,925	c 31	N71-15676 *	US-PATENT-3,548,812	c 05	N71-24729 *
US-PATENT-3,516,879	c 23	N71-16212 *	US-PATENT-3,534,926	c 15	N71-19214 *	US-PATENT-3,548,930	c 33	N71-25353 *
US-PATENT-3,516,964	c 06	N71-11240 *	US-PATENT-3,534,930	c 02	N71-13422 *	US-PATENT-3,549,435	c 14	N72-28438 *
US-PATENT-3,516,970	c 06	N71-11239 *	US-PATENT-3,535,012	c 16	N71-15567 *	US-PATENT-3,549,564	c 06	N71-24739 *
US-PATENT-3,516,971	c 06	N71-24740 *	US-PATENT-3,535,013	c 16	N71-15551 *	US-PATENT-3,549,799	c 09	N71-25866 *
US-PATENT-3,517,109	c 07	N71-19436 *	US-PATENT-3,535,014	c 16	N71-15565 *	US-PATENT-3,549,882	c 15	N71-24896 *
US-PATENT-3,517,162	c 33	N71-16278 *	US-PATENT-3,535,024	c 14	N71-17662 *	US-PATENT-3,549,955	c 09	N71-24892 *
US-PATENT-3,517,171	c 08	N71-24633 *	US-PATENT-3,535,041	c 14	N71-17655 *	US-PATENT-3,550,023	c 09	N71-24806 *
US-PATENT-3,517,221	c 10	N71-19547 *	US-PATENT-3,535,110	c 17	N71-15468 *	US-PATENT-3,550,034	c 16	N71-24832 *
US-PATENT-3,517,268	c 10	N71-19469 *	US-PATENT-3,535,130	c 18	N71-15469 *	US-PATENT-3,550,129	c 21	N71-24948 *
US-PATENT-3,517,302	c 25	N71-16073 *	US-PATENT-3,535,165	c 33	N71-15568 *	US-PATENT-3,550,585	c 05	N71-24738 *
US-PATENT-3,517,318	c 08	N71-19432 *	US-PATENT-3,535,179	c 15	N71-17651 *	US-PATENT-3,551,266	c 33	N71-24858 *
US-PATENT-3,517,328	c 16	N71-18614 *	US-PATENT-3,535,352	c 18	N71-15688 *	US-PATENT-3,551,816	c 07	N71-24613 *
US-PATENT-3,518,232	c 06	N71-11235 *	US-PATENT-3,535,446	c 09	N71-12539 *	US-PATENT-3,551,831	c 33	N75-27251 *
US-PATENT-3,519,483	c 44	N82-24644 *	US-PATENT-3,535,451	c 07	N71-11281 *	US-PATENT-3,552,124	c 28	N71-26642 *
US-PATENT-3,519,484	c 44	N82-24643 *	US-PATENT-3,535,497	c 08	N71-24890 *	US-PATENT-3,552,125	c 28	N71-26173 *
US-PATENT-3,520,190	c 10	N71-13537 *	US-PATENT-3,535,543	c 09	N71-13486 *	US-PATENT-3,553,002	c 18	N71-26100 *
US-PATENT-3,520,238	c 14	N71-18465 *	US-PATENT-3,535,547	c 09	N71-12520 *	US-PATENT-3,553,586	c 07	N71-26292 *
US-PATENT-3,520,317	c 12	N71-17578 *	US-PATENT-3,535,554	c 09	N71-12516 *	US-PATENT-3,553,704	c 10	N71-26142 *
US-PATENT-3,520,496	c 31	N71-16345 *	US-PATENT-3,535,560	c 08	N71-12494 *	US-PATENT-3,553,904	c 15	N71-26134 *
US-PATENT-3,520,503	c 31	N71-16085 *	US-PATENT-3,535,562	c 33	N71-27862 *	US-PATENT-3,554,466	c 31	N71-26537 *
US-PATENT-3,520,617	c 23	N71-16101 *	US-PATENT-3,535,570	c 15	N71-24696 *	US-PATENT-3,554,647	c 23	N71-26206 *
US-PATENT-3,520,660	c 23	N71-16355 *	US-PATENT-3,535,586	c 25	N71-15562 *	US-PATENT-3,554,806	c 03	N71-26084 *
US-PATENT-3,521,054	c 06	N71-13461 *	US-PATENT-3,535,602	c 09	N71-13522 *	US-PATENT-3,555,192	c 07	N71-26181 *
US-PATENT-3,521,143	c 08	N71-18752 *	US-PATENT-3,535,642	c 08	N71-12503 *	US-PATENT-3,555,361	c 10	N71-26531 *
US-PATENT-3,521,290	c 31	N71-16102 *	US-PATENT-3,535,644	c 09	N71-12519 *	US-PATENT-3,555,455	c 23	N71-26722 *
US-PATENT-3,523,228	c 10	N71-24861 *	US-PATENT-3,535,657	c 07	N71-12390 *	US-PATENT-3,555,483	c 35	N77-21393 *
US-PATENT-3,526,030	c 15	N71-17686 *	US-PATENT-3,535,658	c 08	N71-12500 *	US-PATENT-3,555,867	c 15	N71-26148 *
US-PATENT-3,526,134	c 33	N71-16356 *	US-PATENT-3,535,683	c 31	N71-15566 *	US-PATENT-3,555,898	c 12	N71-26546 *
US-PATENT-3,526,139	c 31	N71-16221 *	US-PATENT-3,535,696	c 08	N71-12506 *	US-PATENT-3,556,048	c 09	N71-26701 *
US-PATENT-3,526,140	c 27	N71-16223 *	US-PATENT-3,535,702	c 09	N71-12515 *	US-PATENT-3,556,634	c 07	N71-26291 *
US-PATENT-3,526,359	c 33	N71-16357 *	US-PATENT-3,536,103	c 15	N71-19213 *	US-PATENT-3,557,027	c 06	N71-25929 *
US-PATENT-3,526,365	c 28	N71-16224 *	US-PATENT-3,537,096	c 08	N71-12507 *	US-PATENT-3,557,534	c 15	N71-26185 *
US-PATENT-3,526,372	c 31	N71-16346 *	US-PATENT-3,537,103	c 08	N71-24650 *	US-PATENT-3,559,031	c 10	N71-26085 *
US-PATENT-3,526,382	c 15	N71-17649 *	US-PATENT-3,537,107	c 05	N71-24730 *	US-PATENT-3,559,096	c 10	N71-25882 *
US-PATENT-3,526,460	c 23	N71-16365 *	US-PATENT-3,537,305	c 26	N71-25490 *	US-PATENT-3,559,460	c 14	N71-26672 *
US-PATENT-3,526,473	c 18	N71-15545 *	US-PATENT-3,537,515	c 09	N71-24807 *	US-PATENT-3,559,937	c 14	N71-26627 *
US-PATENT-3,526,580	c 18	N71-16210 *	US-PATENT-3,537,668	c 05	N71-24728 *	US-PATENT-3,560,081	c 19	N71-26674 *
US-PATENT-3,526,611	c 06	N71-11236 *	US-PATENT-3,537,672	c 15	N71-24694 *	US-PATENT-3,560,161	c 06	N71-26754 *
US-PATENT-3,526,845	c 09	N71-13531 *	US-PATENT-3,538,053	c 27	N78-17214 *	US-PATENT-3,561,828	c 15	N71-26189 *
US-PATENT-3,526,897	c 09	N71-13521 *	US-PATENT-3,539,905	c 09	N71-24800 *	US-PATENT-3,562,575	c 09	N71-26182 *
US-PATENT-3,527,724	c 27	N78-33228 *	US-PATENT-3,540,045	c 09	N71-24595 *	US-PATENT-3,562,631	c 14	N71-26137 *
US-PATENT-3,529,480	c 15	N71-17692 *	US-PATENT-3,540,048	c 31	N71-24813 *	US-PATENT-3,562,857	c 15	N71-26721 *
US-PATENT-3,529,928	c 17	N71-16393 *	US-PATENT-3,540,050	c 09	N71-24804 *	US-PATENT-3,562,881	c 09	N71-26678 *
US-PATENT-3,530,336	c 09	N71-13518 *	US-PATENT-3,540,054	c 07	N71-24625 *	US-PATENT-3,562,919	c 15	N71-26145 *
US-PATENT-3,531,964	c 15	N71-18616 *	US-PATENT-3,540,056	c 07	N71-24614 *	US-PATENT-3,563,135	c 15	N71-27147 *
US-PATENT-3,531,978	c 14	N71-18481 *	US-PATENT-3,540,250	c 15	N71-24865 *	US-PATENT-3,563,198	c 18	N71-26285 *
US-PATENT-3,531,982	c 15	N71-18132 *	US-PATENT-3,540,449	c 15	N71-24835 *	US-PATENT-3,563,232	c 05	N71-27234 *
US-PATENT-3,531,989	c 33	N71-15641 *	US-PATENT-3,540,615	c 33	N71-25351 *	US-PATENT-3,563,307	c 15	N71-26611 *
US-PATENT-3,532,118	c 12	N71-18615 *	US-PATENT-3,540,676	c 15	N71-24600 *	US-PATENT-3,563,668	c 14	N71-26788 *
US-PATENT-3,532,128	c 15	N71-18580 *	US-PATENT-3,540,790	c 16	N71-26154 *	US-PATENT-3,563,727	c 15	N71-27184 *
US-PATENT-3,532,427	c 21	N71-19212 *	US-PATENT-3,540,802	c 23	N71-24868 *	US-PATENT-3,563,918	c 06	N71-27363 *
US-PATENT-3,532,428	c 30	N71-15990 *	US-PATENT-3,540,942	c 15	N71-24875 *	US-PATENT-3,564,234	c 09	N71-26787 *
US-PATENT-3,532,538	c 18	N71-16046 *	US-PATENT-3,540,989	c 24	N71-25555 *	US-PATENT-3,564,401	c 14	N71-26135 *
US-PATENT-3,532,551	c 03	N71-11049 *	US-PATENT-3,541,250	c 07	N71-24742 *	US-PATENT-3,564,420	c 14	N71-26774 *
US-PATENT-3,532,568	c 17	N71-16044 *	US-PATENT-3,541,312	c 08	N71-24891 *	US-PATENT-3,564,564	c 15	N71-26162 *
US-PATENT-3,532,673	c 06	N71-11238 *	US-PATENT-3,541,314	c 07	N71-24741 *	US-PATENT-3,564,866	c 23	N71-26654 *
US-PATENT-3,532,807	c 07	N71-19433 *	US-PATENT-3,541,346	c 09	N71-24803 *	US-PATENT-3,564,906	c 32	N71-26681 *
US-PATENT-3,532,819	c 10	N71-19468 *	US-PATENT-3,541,361	c 09	N71-24904 *	US-PATENT-3,565,530	c 15	N71-26673 *
US-PATENT-3,532,866	c 08	N71-18602 *	US-PATENT-3,541,422	c 03	N71-24719 *	US-PATENT-3,565,584	c 15	N71-27372 *
US-PATENT-3,532,880	c 24	N71-16095 *	US-PATENT-3,541,428	c 09	N71-24893 *	US-PATENT-3,565,607	c 17	N71-26773 *
US-PATENT-3,532,894	c 23	N71-16100 *	US-PATENT-3,541,439	c 09	N71-24843 *	US-PATENT-3,565,719	c 03	N71-26726 *
US-PATENT-3,532,948	c 10	N71-18772 *	US-PATENT-3,541,450	c 07	N71-24840 *	US-PATENT-3,566,027	c 07	N71-27341 *
US-PATENT-3,532,960	c 03	N71-12255 *	US-PATENT-3,541,459	c 10	N71-24844 *	US-PATENT-3,566,045	c 08	N71-27210 *
US-PATENT-3,532,973	c 15	N71-17822 *	US-PATENT-3,541,479	c 09	N71-24841 *	US-PATENT-3,566,122	c 14	N71-27323 *
US-PATENT-3,532,975	c 10	N71-19421 *	US-PATENT-3,541,486	c 16	N71-28554 *	US-PATENT-3,566,143	c 14	N71-27407 *
US-PATENT-3,532,979	c 10	N71-12554 *	US-PATENT-3,541,679	c 03	N71-24681 *	US-PATENT-3,566,158	c 10	N71-27126 *
US-PATENT-3,532,985	c 07	N71-19773 *	US-PATENT-3,541,825	c 15	N71-24836 *	US-PATENT-3,566,268	c 10	N71-26577 *
US-PATENT-3,533,001	c 07	N71-24583 *	US-PATENT-3,541,875	c 15	N71-24984 *	US-PATENT-3,566,396	c 10	N71-26544 *
US-PATENT-3,533,006	c 10	N72-28241 *	US-PATENT-3,543,050	c 10	N71-24862 *	US-PATENT-3,566,459	c 14	N71-27334 *
US-PATENT-3,533,074	c 08	N71-12502 *	US-PATENT-3,543,159	c 09	N71-24717 *	US-PATENT-3,566,676	c 14	N71-26199 *
US-PATENT-3,533,093	c 10	N71-19417 *	US-PATENT-3,543,839	c 34	N78-17337 *	US-PATENT-3,566,993	c 15	N71-27169 *
US-PATENT-3,533,098	c 08	N71-18594 *	US-PATENT-3,545,208	c 28	N71-25213 *	US-PATENT-3,567,155	c 21	N71-27324 *
US-PATENT-3,534,365	c 07	N71-19854 *	US-PATENT-3,545,226	c 23	N71-24725 *	US-PATENT-3,567,339	c 15	N71-27084 *
US-PATENT-3,534,367	c 02	N71-19287 *	US-PATENT-3,545,252	c 11	N71-24985 *	US-PATENT-3,567,651	c 18	N71-27170 *
US-PATENT-3,534,375	c 07	N71-11285 *	US-PATENT-3,545,262	c 38	N76-28563 *	US-PATENT-3,567,677	c 18	N71-25881 *
US-PATENT-3,534,376	c 07	N71-26101 *	US-PATENT-3,545,275	c 09	N71-24597 *	US-PATENT-3,567,861	c 10	N71-25865 *
US-PATENT-3,534,406	c 05	N71-11195 *	US-PATENT-3,545,725	c 15	N71-24599 *	US-PATENT-3,567,913	c 10	N71-27137 *
US-PATENT-3,534,407	c 05	N71-11194 *	US-PATENT-3,545,792	c 15	N71-24903 *	US-PATENT-3,567,927	c 14	N71-28863 *
US-PATENT-3,534,479	c 14	N71-17657 *	US-PATENT-3,546,386	c 07	N71-24621 *	US-PATENT-3,568,010	c 09	N71-27232 *
US-PATENT-3,534,480	c 14	N71-17658 *	US-PATENT-3,546,471	c 14	N71-24864 *	US-PATENT-3,568,028	c 10	N71-27136 *
US-PATENT-3,534,485	c 11	N71-18773 *	US-PATENT-3,546,552	c 15	N71-24895 *	US-PATENT-3,568,103	c 10	N71-25900 *
US-PATENT-3,534,555	c 12	N71-17631 *	US-PATENT-3,546,553	c 09	N71-24805 *	US-PATENT-3,568,197	c 07	N71-27056 *
US-PATENT-3,534,584	c 10	N71-13545 *	US-PATENT-3,546,684	c 07	N71-24624 *	US-PATENT-3,568,447	c 15	N71-27432 *
US-PATENT-3,534,585	c 14	N71-17701 *	US-PATENT-3,546,694	c 10	N71-24798 *	US-PATENT-3,568,572	c 15	N71-27754 *
US-PATENT-3,534,592	c 14	N71-17656 *	US-PATENT-3,546,705	c 09	N71-24842 *	US-PATENT-3,568,702	c 10	N71-25899 *
US-PATENT-3,534,596	c 14	N71-17586 *	US-PATENT-3,546,917	c 15	N71-24679 *	US-PATENT-3,568,748	c 15	N71-27091 *
US-PATENT-3,534,597	c 31	N71-15643 *	US-PATENT-3,546,920	c 06	N71-24607 *	US-PATENT-3,568,795	c 15	N71-27067 *
US-PATENT-3,534,650	c 15	N71-17653 *	US-PATENT-3,546,931	c 32	N71-25360 *	US-PATENT-3,568,805	c 15	N71-27146 *
US-PATENT-3,534,686	c 31	N71-15687 *	US-PATENT-3,547,105	c 09	N71-24618 *	US-PATENT-3,568,874	c 15	N71-27068 *
US-PATENT-3,534,727	c 05	N71-11189 *	US-PATENT-3,547,376	c 31	N71-25434 *	US-PATENT-3,568,885	c 14	N71-27005 *
US-PATENT-3,534,765	c 12	N71-17661 *	US-PATENT-3,547,540	c 16	N71-24828 *	US-PATENT-3,569,710	c 14	N71-25901 *
US-PATENT-3,534,826	c 31	N71-15689 *	US-PATENT-3,547,801	c 03	N71-24718 *	US-PATENT-3,569,744	c 09	N71-27016 *
US-PATENT-3,534,836	c 15	N71-17805 *	US-PATENT-3,548,107	c 07	N71-24622 *	US-PATENT-3,569,804	c 09	N71-25999 *
US-PATENT-3,534,909	c 15	N71-17654 *	US-PATENT-3,548,633	c 18	N71-24934 *	US-PATENT-3,569,827	c 18	N71-27397 *
US-PATENT-3,534,924	c 31	N71-15674 *	US-PATENT-3,548,636	c 15	N71-24910 *	US-PATENT-3,569,828	c 14	N71-27186 *

US-PATENT-3,569,866	c 10	N71-27271 *	US-PATENT-3,568,648	c 07	N71-33613 *	US-PATENT-3,612,442	c 28	N72-22769 *
US-PATENT-3,569,875	c 07	N71-27191 *	US-PATENT-3,568,671	c 09	N71-33109 *	US-PATENT-3,612,645	c 14	N72-22441 *
US-PATENT-3,569,956	c 10	N71-25917 *	US-PATENT-3,568,705	c 07	N71-33696 *	US-PATENT-3,612,743	c 09	N72-22198 *
US-PATENT-3,569,976	c 07	N71-27233 *	US-PATENT-3,568,751	c 07	N71-33606 *	US-PATENT-3,612,895	c 09	N72-22197 *
US-PATENT-3,570,143	c 10	N71-27365 *	US-PATENT-3,568,874	c 09	N71-33519 *	US-PATENT-3,613,110	c 08	N72-21199 *
US-PATENT-3,570,364	c 28	N71-26779 *	US-PATENT-3,568,883	c 10	N71-33407 *	US-PATENT-3,613,111	c 08	N72-21200 *
US-PATENT-3,570,513	c 12	N71-27332 *	US-PATENT-3,591,420	c 03	N71-33409 *	US-PATENT-3,613,370	c 28	N72-22770 *
US-PATENT-3,570,785	c 28	N71-27585 *	US-PATENT-3,591,426	c 17	N71-33408 *	US-PATENT-3,613,454	c 35	N77-27368 *
US-PATENT-3,570,789	c 02	N71-27088 *	US-PATENT-3,591,885	c 15	N72-11390 *	US-PATENT-3,613,457	c 15	N72-22482 *
US-PATENT-3,571,555	c 15	N71-27135 *	US-PATENT-3,591,960	c 15	N72-12409 *	US-PATENT-3,613,794	c 12	N72-21310 *
US-PATENT-3,571,656	c 09	N71-27001 *	US-PATENT-3,591,967	c 28	N72-11709 *	US-PATENT-3,614,228	c 14	N72-21409 *
US-PATENT-3,571,662	c 10	N71-27366 *	US-PATENT-3,592,422	c 15	N72-11391 *	US-PATENT-3,614,327	c 08	N72-22162 *
US-PATENT-3,571,693	c 09	N71-27364 *	US-PATENT-3,592,478	c 09	N72-11224 *	US-PATENT-3,614,343	c 07	N72-21119 *
US-PATENT-3,571,699	c 09	N71-27053 *	US-PATENT-3,592,505	c 05	N72-11085 *	US-PATENT-3,614,431	c 14	N72-21408 *
US-PATENT-3,571,700	c 14	N71-27325 *	US-PATENT-3,592,545	c 14	N72-11364 *	US-PATENT-3,614,475	c 10	N72-16172 *
US-PATENT-3,571,707	c 10	N71-27338 *	US-PATENT-3,592,559	c 02	N72-11018 *	US-PATENT-3,614,557	c 26	N72-21701 *
US-PATENT-3,571,800	c 10	N71-27272 *	US-PATENT-3,592,628	c 15	N72-11387 *	US-PATENT-3,614,587	c 09	N72-22196 *
US-PATENT-3,571,801	c 08	N71-27255 *	US-PATENT-3,592,768	c 15	N72-11389 *	US-PATENT-3,614,648	c 09	N72-21247 *
US-PATENT-3,572,089	c 14	N71-27185 *	US-PATENT-3,593,001	c 15	N72-11392 *	US-PATENT-3,614,772	c 08	N72-22163 *
US-PATENT-3,572,104	c 28	N71-27094 *	US-PATENT-3,593,024	c 24	N72-11595 *	US-PATENT-3,614,898	c 15	N72-21462 *
US-PATENT-3,572,112	c 15	N71-27006 *	US-PATENT-3,593,132	c 09	N72-11225 *	US-PATENT-3,614,899	c 09	N72-22195 *
US-PATENT-3,572,610	c 28	N71-27095 *	US-PATENT-3,593,138	c 07	N72-11149 *	US-PATENT-3,615,021	c 15	N72-22483 *
US-PATENT-3,572,935	c 14	N71-27215 *	US-PATENT-3,593,175	c 10	N72-11256 *	US-PATENT-3,615,241	c 15	N72-21465 *
US-PATENT-3,573,078	c 27	N82-29451 *	US-PATENT-3,593,180	c 07	N72-11150 *	US-PATENT-3,615,465	c 06	N72-21094 *
US-PATENT-3,573,470	c 74	N78-33913 *	US-PATENT-3,593,194	c 16	N72-12440 *	US-PATENT-3,615,853	c 03	N72-22042 *
US-PATENT-3,573,504	c 33	N78-17294 *	US-PATENT-3,594,790	c 07	N72-12080 *	US-PATENT-3,616,338	c 15	N72-21466 *
US-PATENT-3,573,583	c 09	N71-28886 *	US-PATENT-3,594,803	c 09	N72-12136 *	US-PATENT-3,616,528	c 03	N72-22041 *
US-PATENT-3,573,797	c 08	N71-27057 *	US-PATENT-3,596,465	c 28	N72-11708 *	US-PATENT-3,617,804	c 25	N72-24753 *
US-PATENT-3,573,977	c 15	N71-28582 *	US-PATENT-3,596,510	c 14	N72-11363 *	US-PATENT-3,619,896	c 15	N72-22487 *
US-PATENT-3,573,986	c 03	N71-28579 *	US-PATENT-3,596,554	c 15	N72-11385 *	US-PATENT-3,619,924	c 11	N72-22247 *
US-PATENT-3,573,996	c 18	N71-29040 *	US-PATENT-3,596,863	c 15	N72-11386 *	US-PATENT-3,620,018	c 28	N72-22771 *
US-PATENT-3,574,057	c 22	N71-28759 *	US-PATENT-3,597,281	c 03	N72-11062 *	US-PATENT-3,620,069	c 14	N72-22440 *
US-PATENT-3,574,084	c 14	N71-28933 *	US-PATENT-3,598,921	c 08	N72-11171 *	US-PATENT-3,620,076	c 11	N72-22246 *
US-PATENT-3,574,277	c 15	N71-28467 *	US-PATENT-3,599,216	c 07	N72-11148 *	US-PATENT-3,620,083	c 14	N72-22438 *
US-PATENT-3,574,286	c 11	N71-27036 *	US-PATENT-3,599,335	c 08	N72-11172 *	US-PATENT-3,620,095	c 15	N72-21463 *
US-PATENT-3,574,438	c 07	N71-29065 *	US-PATENT-3,599,443	c 05	N72-11084 *	US-PATENT-3,620,585	c 15	N72-22490 *
US-PATENT-3,574,448	c 23	N71-29123 *	US-PATENT-3,599,489	c 14	N72-11365 *	US-PATENT-3,620,595	c 14	N72-22445 *
US-PATENT-3,574,462	c 14	N71-29041 *	US-PATENT-3,600,046	c 15	N72-11388 *	US-PATENT-3,620,606	c 23	N72-22673 *
US-PATENT-3,574,467	c 23	N71-29125 *	US-PATENT-3,600,599	c 33	N78-17296 *	US-PATENT-3,620,718	c 17	N72-22535 *
US-PATENT-3,574,470	c 14	N71-28993 *	US-PATENT-3,602,920	c 11	N72-17183 *	US-PATENT-3,620,784	c 18	N72-23581 *
US-PATENT-3,574,770	c 06	N71-27254 *	US-PATENT-3,602,923	c 05	N72-22093 *	US-PATENT-3,620,791	c 18	N72-22566 *
US-PATENT-3,575,336	c 15	N71-27214 *	US-PATENT-3,602,979	c 15	N72-22492 *	US-PATENT-3,620,846	c 31	N72-22874 *
US-PATENT-3,575,585	c 14	N71-27058 *	US-PATENT-3,602,984	c 26	N72-17820 *	US-PATENT-3,621,130	c 08	N72-22164 *
US-PATENT-3,575,597	c 14	N71-27090 *	US-PATENT-3,603,092	c 28	N72-17843 *	US-PATENT-3,621,193	c 15	N72-23497 *
US-PATENT-3,575,602	c 16	N71-27183 *	US-PATENT-3,603,093	c 28	N72-18766 *	US-PATENT-3,621,194	c 15	N72-22491 *
US-PATENT-3,575,638	c 09	N71-26133 *	US-PATENT-3,603,260	c 33	N72-17947 *	US-PATENT-3,621,228	c 08	N72-22165 *
US-PATENT-3,575,641	c 10	N71-26334 *	US-PATENT-3,603,285	c 25	N75-29192 *	US-PATENT-3,621,277	c 10	N72-22236 *
US-PATENT-3,576,107	c 28	N71-26781 *	US-PATENT-3,603,382	c 33	N72-17948 *	US-PATENT-3,621,285	c 09	N72-22200 *
US-PATENT-3,576,127	c 14	N71-26161 *	US-PATENT-3,603,433	c 15	N72-17450 *	US-PATENT-3,621,287	c 09	N72-22201 *
US-PATENT-3,576,135	c 15	N71-26635 *	US-PATENT-3,603,532	c 30	N72-17873 *	US-PATENT-3,621,290	c 09	N72-22202 *
US-PATENT-3,576,301	c 02	N71-26110 *	US-PATENT-3,603,683	c 14	N72-17326 *	US-PATENT-3,621,294	c 09	N72-23171 *
US-PATENT-3,576,656	c 18	N71-26772 *	US-PATENT-3,603,686	c 16	N72-13437 *	US-PATENT-3,621,330	c 33	N77-21316 *
US-PATENT-3,576,669	c 15	N71-29032 *	US-PATENT-3,603,690	c 14	N72-17323 *	US-PATENT-3,621,362	c 09	N72-22203 *
US-PATENT-3,576,723	c 09	N71-28691 *	US-PATENT-3,603,722	c 07	N72-17109 *	US-PATENT-3,621,372	c 09	N72-25249 *
US-PATENT-3,576,766	c 06	N71-28620 *	US-PATENT-3,603,772	c 08	N72-22166 *	US-PATENT-3,621,406	c 09	N72-33204 *
US-PATENT-3,577,014	c 10	N71-28860 *	US-PATENT-3,603,798	c 09	N72-17152 *	US-PATENT-3,621,407	c 09	N72-21245 *
US-PATENT-3,577,092	c 07	N71-28430 *	US-PATENT-3,603,864	c 09	N72-17154 *	US-PATENT-3,621,565	c 09	N72-22199 *
US-PATENT-3,577,356	c 06	N73-30102 *	US-PATENT-3,603,892	c 09	N72-17155 *	US-PATENT-3,623,030	c 08	N72-21198 *
US-PATENT-3,578,755	c 14	N71-29134 *	US-PATENT-3,603,946	c 09	N72-17153 *	US-PATENT-3,623,094	c 10	N72-22235 *
US-PATENT-3,578,756	c 11	N71-28629 *	US-PATENT-3,603,974	c 14	N72-18411 *	US-PATENT-3,623,107	c 07	N72-21117 *
US-PATENT-3,578,758	c 14	N71-28992 *	US-PATENT-3,603,976	c 08	N72-18184 *	US-PATENT-3,623,114	c 07	N72-22127 *
US-PATENT-3,578,838	c 16	N71-29131 *	US-PATENT-3,605,032	c 10	N72-17172 *	US-PATENT-3,623,359	c 35	N77-27367 *
US-PATENT-3,578,867	c 14	N71-28994 *	US-PATENT-3,605,424	c 15	N72-17453 *	US-PATENT-3,623,360	c 14	N72-21405 *
US-PATENT-3,578,957	c 08	N71-29033 *	US-PATENT-3,605,482	c 14	N72-16282 *	US-PATENT-3,623,361	c 14	N72-21407 *
US-PATENT-3,578,988	c 09	N71-29139 *	US-PATENT-3,605,495	c 14	N72-17327 *	US-PATENT-3,623,394	c 15	N72-22488 *
US-PATENT-3,578,992	c 09	N71-28421 *	US-PATENT-3,605,519	c 14	N72-17324 *	US-PATENT-3,623,828	c 15	N72-22489 *
US-PATENT-3,579,041	c 09	N71-29008 *	US-PATENT-3,606,212	c 31	N72-18859 *	US-PATENT-3,623,861	c 17	N72-22530 *
US-PATENT-3,579,103	c 14	N71-28991 *	US-PATENT-3,606,470	c 46	N74-23068 *	US-PATENT-3,624,496	c 15	N72-21464 *
US-PATENT-3,579,122	c 08	N71-29034 *	US-PATENT-3,606,522	c 23	N72-23695 *	US-PATENT-3,624,598	c 21	N72-22619 *
US-PATENT-3,579,146	c 08	N71-29138 *	US-PATENT-3,606,979	c 15	N72-17454 *	US-PATENT-3,624,650	c 07	N72-21118 *
US-PATENT-3,579,147	c 07	N71-28429 *	US-PATENT-3,607,015	c 06	N72-17093 *	US-PATENT-3,624,659	c 09	N72-21246 *
US-PATENT-3,579,168	c 09	N71-29035 *	US-PATENT-3,607,076	c 06	N72-17094 *	US-PATENT-3,624,839	c 05	N72-20098 *
US-PATENT-3,579,242	c 07	N71-28980 *	US-PATENT-3,607,080	c 06	N72-17095 *	US-PATENT-3,625,018	c 15	N72-22484 *
US-PATENT-3,579,390	c 18	N71-28729 *	US-PATENT-3,607,338	c 18	N72-17532 *	US-PATENT-3,625,084	c 15	N72-22485 *
US-PATENT-3,579,412	c 17	N71-28747 *	US-PATENT-3,607,401	c 03	N72-15986 *	US-PATENT-3,625,766	c 03	N72-20032 *
US-PATENT-3,581,492	c 28	N71-28915 *	US-PATENT-3,607,495	c 15	N72-16330 *	US-PATENT-3,626,114	c 35	N79-16246 *
US-PATENT-3,582,828	c 33	N77-21314 *	US-PATENT-3,608,046	c 15	N72-16329 *	US-PATENT-3,626,189	c 14	N72-20381 *
US-PATENT-3,582,960	c 09	N71-28618 *	US-PATENT-3,608,365	c 15	N72-17452 *	US-PATENT-3,626,216	c 14	N72-22439 *
US-PATENT-3,583,058	c 15	N71-29018 *	US-PATENT-3,608,409	c 14	N72-16283 *	US-PATENT-3,626,298	c 07	N72-20140 *
US-PATENT-3,583,239	c 15	N71-29132 *	US-PATENT-3,608,844	c 15	N72-18477 *	US-PATENT-3,626,308	c 10	N72-20223 *
US-PATENT-3,583,322	c 05	N71-28619 *	US-PATENT-3,609,230	c 09	N72-17156 *	US-PATENT-3,626,828	c 14	N72-20380 *
US-PATENT-3,583,419	c 12	N71-28741 *	US-PATENT-3,609,271	c 09	N72-22204 *	US-PATENT-3,628,113	c 37	N77-27400 *
US-PATENT-3,583,744	c 15	N71-29133 *	US-PATENT-3,609,327	c 08	N72-22167 *	US-PATENT-3,629,068	c 22	N72-20597 *
US-PATENT-3,583,777	c 15	N71-28465 *	US-PATENT-3,609,353	c 14	N72-17328 *	US-PATENT-3,629,161	c 18	N72-22567 *
US-PATENT-3,583,815	c 15	N71-28740 *	US-PATENT-3,609,364	c 10	N72-17173 *	US-PATENT-3,630,276	c 33	N72-20915 *
US-PATENT-3,584,311	c 09	N71-28468 *	US-PATENT-3,609,387	c 09	N72-17157 *	US-PATENT-3,630,304	c 11	N72-20244 *
US-PATENT-3,584,660	c 15	N72-12408 *	US-PATENT-3,609,535	c 14	N72-17325 *	US-PATENT-3,630,627	c 03	N72-20033 *
US-PATENT-3,585,514	c 10	N71-33129 *	US-PATENT-3,609,567	c 10	N72-17171 *	US-PATENT-3,631,339	c 08	N72-20177 *
US-PATENT-3,585,882	c 15	N71-33518 *	US-PATENT-3,609,740	c 05	N72-16015 *	US-PATENT-3,631,351	c 10	N72-20224 *
US-PATENT-3,586,261	c 31	N71-33160 *	US-PATENT-3,610,365	c 15	N72-17451 *	US-PATENT-3,631,382	c 09	N72-20200 *
US-PATENT-3,587,306	c 11	N71-33612 *	US-PATENT-3,611,274	c 15	N72-17455 *	US-PATENT-3,631,737	c 15	N72-28495 *
US-PATENT-3,587,424	c 16	N71-33410 *	US-PATENT-3,611,330	c 23	N72-17747 *	US-PATENT-3,632,081	c 15	N72-20442 *
US-PATENT-3,588,220	c 23	N71-33229 *	US-PATENT-3,611,798	c 14	N72-22437 *	US-PATENT-3,632,140	c 15	N72-20445 *
US-PATENT-3,588,331	c 07	N72-12081 *	US-PATENT-3,611,801	c 14	N72-17329 *	US-PATENT-3,632,242	c 15	N72-20446 *
US-PATENT-3,588,359	c 07	N71-33108 *	US-PATENT-3,612,030	c 46	N74-23069 *	US-PATENT-3,632,923	c 09	N72-20199 *
US-PATENT-3,588,483	c 08	N71-33110 *	US-PATENT-3,612,391	c 11	N72-22245 *	US-PATENT-3,632,996	c 08	N72-20176 *

US-PATENT-3,633,048	c 10	N72-20221 *	US-PATENT-3,663,944	c 09	N72-25254 *	US-PATENT-3,699,799	c 15	N73-13463 *
US-PATENT-3,633,110	c 07	N72-20141 *	US-PATENT-3,664,185	c 15	N72-26371 *	US-PATENT-3,699,807	c 14	N73-13416 *
US-PATENT-3,634,383	c 27	N72-22710 *	US-PATENT-3,664,874	c 09	N72-25259 *	US-PATENT-3,699,811	c 14	N73-13415 *
US-PATENT-3,635,216	c 05	N72-20096 *	US-PATENT-3,665,064	c 05	N72-25120 *	US-PATENT-3,700,005	c 15	N73-13462 *
US-PATENT-3,635,537	c 33	N80-14330 *	US-PATENT-3,665,307	c 15	N72-25457 *	US-PATENT-3,700,192	c 31	N73-13898 *
US-PATENT-3,635,765	c 03	N72-20034 *	US-PATENT-3,665,313	c 07	N72-25173 *	US-PATENT-3,700,193	c 30	N73-12884 *
US-PATENT-3,636,539	c 03	N72-20031 *	US-PATENT-3,665,417	c 07	N72-25172 *	US-PATENT-3,700,291	c 15	N73-12488 *
US-PATENT-3,636,564	c 05	N72-22092 *	US-PATENT-3,665,467	c 14	N72-28437 *	US-PATENT-3,700,334	c 14	N73-12446 *
US-PATENT-3,636,623	c 15	N72-20444 *	US-PATENT-3,665,481	c 07	N72-25174 *	US-PATENT-3,700,503	c 14	N73-12447 *
US-PATENT-3,636,711	c 28	N72-20758 *	US-PATENT-3,665,589	c 09	N72-25261 *	US-PATENT-3,700,538	c 18	N73-12604 *
US-PATENT-3,636,966	c 05	N72-20097 *	US-PATENT-3,665,669	c 15	N72-25454 *	US-PATENT-3,700,575	c 15	N73-12487 *
US-PATENT-3,637,051	c 15	N72-20443 *	US-PATENT-3,665,670	c 11	N72-25287 *	US-PATENT-3,700,603	c 14	N73-14428 *
US-PATENT-3,637,170	c 21	N72-21624 *	US-PATENT-3,665,750	c 33	N72-25913 *	US-PATENT-3,700,812	c 10	N73-12244 *
US-PATENT-3,637,312	c 14	N72-20379 *	US-PATENT-3,665,751	c 32	N72-25877 *	US-PATENT-3,700,868	c 09	N73-13209 *
US-PATENT-3,637,842	c 06	N72-20121 *	US-PATENT-3,665,758	c 11	N72-25288 *	US-PATENT-3,700,869	c 08	N73-12175 *
US-PATENT-3,638,002	c 08	N72-21197 *	US-PATENT-3,666,051	c 15	N72-25453 *	US-PATENT-3,700,893	c 14	N73-12444 *
US-PATENT-3,638,066	c 10	N72-20225 *	US-PATENT-3,666,120	c 03	N72-25021 *	US-PATENT-3,700,897	c 14	N73-12445 *
US-PATENT-3,638,103	c 09	N72-21243 *	US-PATENT-3,666,566	c 03	N72-26031 *	US-PATENT-3,700,961	c 23	N73-13660 *
US-PATENT-3,638,114	c 10	N72-20222 *	US-PATENT-3,666,631	c 14	N72-25413 *	US-PATENT-3,701,631	c 17	N73-12547 *
US-PATENT-3,638,224	c 09	N72-21244 *	US-PATENT-3,666,718	c 06	N72-25151 *	US-PATENT-3,701,894	c 07	N73-13149 *
US-PATENT-3,639,250	c 14	N72-22443 *	US-PATENT-3,666,741	c 06	N72-25150 *	US-PATENT-3,702,463	c 08	N73-13187 *
US-PATENT-3,639,510	c 06	N72-22107 *	US-PATENT-3,666,942	c 06	N72-25146 *	US-PATENT-3,702,520	c 32	N73-13921 *
US-PATENT-3,639,809	c 15	N72-22486 *	US-PATENT-3,667,010	c 26	N72-25679 *	US-PATENT-3,702,532	c 15	N73-13467 *
US-PATENT-3,639,835	c 14	N72-22442 *	US-PATENT-3,667,039	c 26	N72-25680 *	US-PATENT-3,702,536	c 28	N73-13773 *
US-PATENT-3,640,256	c 28	N72-22772 *	US-PATENT-3,667,044	c 07	N72-25171 *	US-PATENT-3,702,575	c 15	N73-13466 *
US-PATENT-3,641,470	c 35	N78-17359 *	US-PATENT-3,668,956	c 15	N72-27485 *	US-PATENT-3,702,688	c 31	N73-14854 *
US-PATENT-3,647,276	c 14	N72-22444 *	US-PATENT-3,669,110	c 05	N72-27103 *	US-PATENT-3,702,735	c 23	N73-13661 *
US-PATENT-3,647,529	c 27	N74-23125 *	US-PATENT-3,669,393	c 15	N72-27484 *	US-PATENT-3,702,762	c 06	N73-13129 *
US-PATENT-3,647,924	c 11	N72-23215 *	US-PATENT-3,670,097	c 23	N72-27728 *	US-PATENT-3,702,775	c 06	N73-13128 *
US-PATENT-3,648,043	c 09	N72-23173 *	US-PATENT-3,670,168	c 14	N72-27409 *	US-PATENT-3,702,791	c 15	N73-13465 *
US-PATENT-3,648,083	c 12	N72-25292 *	US-PATENT-3,670,202	c 14	N72-27411 *	US-PATENT-3,702,841	c 18	N73-13562 *
US-PATENT-3,648,152	c 03	N72-23048 *	US-PATENT-3,670,241	c 14	N72-27408 *	US-PATENT-3,702,898	c 10	N73-13235 *
US-PATENT-3,648,209	c 09	N72-27226 *	US-PATENT-3,670,290	c 09	N72-28225 *	US-PATENT-3,702,933	c 23	N73-13662 *
US-PATENT-3,648,250	c 09	N72-25248 *	US-PATENT-3,670,559	c 33	N72-27959 *	US-PATENT-3,702,951	c 09	N73-13208 *
US-PATENT-3,648,256	c 08	N72-25207 *	US-PATENT-3,670,563	c 14	N72-27412 *	US-PATENT-3,702,972	c 16	N73-13489 *
US-PATENT-3,648,275	c 08	N72-25206 *	US-PATENT-3,670,584	c 11	N72-27282 *	US-PATENT-3,702,979	c 14	N73-13420 *
US-PATENT-3,648,461	c 28	N72-23810 *	US-PATENT-3,670,890	c 05	N72-27102 *	US-PATENT-3,704,284	c 74	N81-19898 *
US-PATENT-3,648,516	c 35	N74-22095 *	US-PATENT-3,671,105	c 26	N72-27784 *	US-PATENT-3,704,659	c 14	N73-14427 *
US-PATENT-3,649,242	c 15	N72-25448 *	US-PATENT-3,671,329	c 14	N72-27410 *	US-PATENT-3,705,255	c 15	N73-14469 *
US-PATENT-3,649,353	c 26	N72-28762 *	US-PATENT-3,671,497	c 06	N72-27144 *	US-PATENT-3,705,288	c 15	N73-14468 *
US-PATENT-3,649,356	c 15	N72-25447 *	US-PATENT-3,671,798	c 10	N72-27246 *	US-PATENT-3,705,316	c 09	N73-14214 *
US-PATENT-3,649,462	c 11	N72-25284 *	US-PATENT-3,672,999	c 03	N72-27053 *	US-PATENT-3,705,406	c 07	N73-14130 *
US-PATENT-3,649,907	c 09	N72-23172 *	US-PATENT-3,673,424	c 09	N72-27227 *	US-PATENT-3,706,221	c 14	N73-14429 *
US-PATENT-3,649,921	c 05	N72-23085 *	US-PATENT-3,673,440	c 09	N72-27228 *	US-PATENT-3,706,230	c 31	N73-14855 *
US-PATENT-3,649,935	c 07	N72-25170 *	US-PATENT-3,675,332	c 14	N72-28436 *	US-PATENT-3,706,281	c 31	N73-14853 *
US-PATENT-3,650,095	c 14	N72-23457 *	US-PATENT-3,675,376	c 15	N72-28496 *	US-PATENT-3,706,583	c 18	N73-14584 *
US-PATENT-3,650,474	c 28	N72-23809 *	US-PATENT-3,675,712	c 03	N72-28025 *	US-PATENT-3,706,970	c 21	N73-14692 *
US-PATENT-3,651,008	c 27	N81-24258 *	US-PATENT-3,675,910	c 17	N72-28535 *	US-PATENT-3,708,359	c 27	N73-16764 *
US-PATENT-3,653,052	c 09	N72-25247 *	US-PATENT-3,675,935	c 15	N72-29488 *	US-PATENT-3,708,419	c 33	N73-16918 *
US-PATENT-3,653,882	c 18	N72-25539 *	US-PATENT-3,676,084	c 17	N72-28536 *	US-PATENT-3,708,671	c 14	N73-16483 *
US-PATENT-3,653,970	c 03	N72-24037 *	US-PATENT-3,676,674	c 14	N72-29464 *	US-PATENT-3,708,674	c 14	N73-16484 *
US-PATENT-3,654,036	c 03	N72-25019 *	US-PATENT-3,676,754	c 26	N72-28761 *	US-PATENT-3,709,663	c 06	N73-16106 *
US-PATENT-3,655,814	c 27	N81-15104 *	US-PATENT-3,676,772	c 10	N72-28240 *	US-PATENT-3,710,122	c 16	N73-16536 *
US-PATENT-3,656,313	c 23	N72-25619 *	US-PATENT-3,676,787	c 16	N72-28521 *	US-PATENT-3,710,257	c 07	N73-16121 *
US-PATENT-3,656,317	c 33	N72-25911 *	US-PATENT-3,676,809	c 09	N72-29172 *	US-PATENT-3,710,261	c 10	N73-16205 *
US-PATENT-3,656,352	c 14	N72-25411 *	US-PATENT-3,678,191	c 10	N73-31273 *	US-PATENT-3,710,329	c 10	N73-16206 *
US-PATENT-3,656,781	c 15	N72-25450 *	US-PATENT-3,678,654	c 06	N72-31140 *	US-PATENT-3,711,042	c 02	N73-19004 *
US-PATENT-3,657,190	c 23	N82-29358 *	US-PATENT-3,678,685	c 21	N72-31637 *	US-PATENT-3,711,701	c 74	N77-21941 *
US-PATENT-3,657,549	c 14	N72-25409 *	US-PATENT-3,678,771	c 37	N74-23070 *	US-PATENT-3,712,120	c 14	N73-19421 *
US-PATENT-3,657,644	c 14	N72-24477 *	US-PATENT-3,679,360	c 04	N72-33072 *	US-PATENT-3,712,121	c 14	N73-19420 *
US-PATENT-3,657,928	c 14	N72-25410 *	US-PATENT-3,679,899	c 06	N72-31141 *	US-PATENT-3,712,132	c 14	N73-20478 *
US-PATENT-3,658,295	c 15	N72-25451 *	US-PATENT-3,680,142	c 09	N72-31235 *	US-PATENT-3,712,195	c 14	N73-19419 *
US-PATENT-3,658,569	c 15	N72-25452 *	US-PATENT-3,680,144	c 07	N72-32169 *	US-PATENT-3,712,591	c 15	N73-19458 *
US-PATENT-3,658,608	c 27	N72-25699 *	US-PATENT-3,680,830	c 15	N72-31483 *	US-PATENT-3,713,163	c 09	N73-19234 *
US-PATENT-3,658,974	c 15	N72-24522 *	US-PATENT-3,681,581	c 08	N72-31226 *	US-PATENT-3,713,290	c 28	N73-19793 *
US-PATENT-3,659,043	c 14	N72-25412 *	US-PATENT-3,686,542	c 14	N72-31446 *	US-PATENT-3,713,480	c 05	N73-20137 *
US-PATENT-3,659,053	c 08	N72-25208 *	US-PATENT-3,690,291	c 15	N72-32487 *	US-PATENT-3,713,987	c 15	N73-20514 *
US-PATENT-3,659,148	c 09	N72-25250 *	US-PATENT-3,692,533	c 05	N72-33096 *	US-PATENT-3,714,332	c 15	N73-19457 *
US-PATENT-3,659,184	c 09	N72-25251 *	US-PATENT-3,693,002	c 25	N72-32688 *	US-PATENT-3,714,405	c 10	N73-20253 *
US-PATENT-3,659,225	c 16	N72-25485 *	US-PATENT-3,693,105	c 10	N72-33230 *	US-PATENT-3,714,432	c 14	N73-20475 *
US-PATENT-3,659,292	c 08	N72-25209 *	US-PATENT-3,693,346	c 15	N72-33477 *	US-PATENT-3,714,526	c 09	N73-19235 *
US-PATENT-3,660,240	c 06	N72-25149 *	US-PATENT-3,693,418	c 14	N72-33377 *	US-PATENT-3,714,588	c 09	N73-20231 *
US-PATENT-3,660,434	c 06	N72-25148 *	US-PATENT-3,694,041	c 15	N72-33476 *	US-PATENT-3,714,624	c 14	N73-20474 *
US-PATENT-3,660,704	c 15	N72-25456 *	US-PATENT-3,694,094	c 14	N72-32452 *	US-PATENT-3,714,645	c 08	N73-20217 *
US-PATENT-3,660,851	c 05	N72-25119 *	US-PATENT-3,694,313	c 24	N72-33681 *	US-PATENT-3,714,821	c 14	N73-20476 *
US-PATENT-3,662,337	c 08	N72-25210 *	US-PATENT-3,694,581	c 08	N72-33172 *	US-PATENT-3,714,833	c 11	N73-20267 *
US-PATENT-3,662,441	c 05	N72-25121 *	US-PATENT-3,694,655	c 25	N72-33696 *	US-PATENT-3,715,092	c 03	N73-20039 *
US-PATENT-3,662,547	c 15	N72-25455 *	US-PATENT-3,694,700	c 09	N72-33205 *	US-PATENT-3,715,152	c 23	N73-20741 *
US-PATENT-3,662,604	c 13	N72-25323 *	US-PATENT-3,694,753	c 07	N72-33146 *	US-PATENT-3,715,590	c 14	N73-20477 *
US-PATENT-3,662,661	c 31	N72-25842 *	US-PATENT-3,694,771	c 09	N73-15235 *	US-PATENT-3,715,600	c 03	N73-20040 *
US-PATENT-3,662,744	c 05	N72-25122 *	US-PATENT-3,695,101	c 11	N73-12264 *	US-PATENT-3,715,660	c 07	N73-20175 *
US-PATENT-3,662,973	c 21	N72-25595 *	US-PATENT-3,696,418	c 09	N73-12211 *	US-PATENT-3,715,663	c 07	N73-20174 *
US-PATENT-3,663,346	c 18	N72-25541 *	US-PATENT-3,696,833	c 11	N73-12265 *	US-PATENT-3,715,693	c 09	N73-20232 *
US-PATENT-3,663,347	c 18	N72-25540 *	US-PATENT-3,697,021	c 15	N73-12486 *	US-PATENT-3,715,723	c 07	N73-20176 *
US-PATENT-3,663,464	c 06	N72-25147 *	US-PATENT-3,697,630	c 15	N73-12489 *	US-PATENT-3,715,915	c 32	N73-20740 *
US-PATENT-3,663,521	c 06	N72-25152 *	US-PATENT-3,697,705	c 35	N77-21392 *	US-PATENT-3,718,863	c 10	N73-20254 *
US-PATENT-3,663,753	c 14	N72-25414 *	US-PATENT-3,697,733	c 08	N73-12176 *	US-PATENT-3,719,891	c 07	N73-25160 *
US-PATENT-3,663,828	c 09	N72-25262 *	US-PATENT-3,697,950	c 08	N73-12177 *	US-PATENT-3,720,075	c 33	N73-25952 *
US-PATENT-3,663,839	c 09	N72-25260 *	US-PATENT-3,697,968	c 21	N73-13644 *	US-PATENT-3,720,208	c 05	N73-25125 *
US-PATENT-3,663,843	c 09	N72-25255 *	US-PATENT-3,698,385	c 05	N73-13114 *	US-PATENT-3,723,745	c 14	N73-25462 *
US-PATENT-3,663,885	c 09	N72-25257 *	US-PATENT-3,698,412	c 14	N73-13418 *	US-PATENT-3,728,861	c 28	N73-24783 *
US-PATENT-3,663,886	c 09	N72-25258 *	US-PATENT-3,698,659	c 11	N73-13257 *	US-PATENT-3,729,068	c 15	N73-25512 *
US-PATENT-3,663,929	c 09	N72-25256 *	US-PATENT-3,698,667	c 02	N73-13008 *	US-PATENT-3,729,129	c 08	N73-25206 *
US-PATENT-3,663,938	c 03	N72-25020 *	US-PATENT-3,698,848	c 15	N73-13464 *	US-PATENT-3,729,260	c 14	N73-25463 *
US-PATENT-3,663,940	c 09	N72-25252 *	US-PATENT-3,699,511	c 21	N73-13643 *	US-PATENT-3,729,343	c 14	N73-24472 *
US-PATENT-3,663,941	c 09	N72-25253 *	US-PATENT-3,699,645	c 14	N73-13417 *	US-PATENT-3,729,676	c 14	N73-24473 *

US-PATENT-3,729,736	c 07	N73-25161 *	US-PATENT-3,752,556	c 35	N74-17153 *	US-PATENT-3,780,966	c 19	N74-15089 *
US-PATENT-3,729,743	c 07	N73-24176 *	US-PATENT-3,752,559	c 14	N73-30393 *	US-PATENT-3,781,111	c 36	N74-15145 *
US-PATENT-3,729,935	c 28	N73-24784 *	US-PATENT-3,752,564	c 23	N73-30666 *	US-PATENT-3,781,549	c 35	N74-15090 *
US-PATENT-3,730,287	c 11	N73-26238 *	US-PATENT-3,752,665	c 18	N73-32437 *	US-PATENT-3,781,562	c 35	N74-15091 *
US-PATENT-3,730,891	c 18	N73-26572 *	US-PATENT-3,752,847	c 06	N73-30098 *	US-PATENT-3,781,902	c 35	N74-15831 *
US-PATENT-3,731,528	c 12	N73-25262 *	US-PATENT-3,752,986	c 14	N73-30392 *	US-PATENT-3,781,933	c 54	N74-14845 *
US-PATENT-3,731,531	c 14	N73-25460 *	US-PATENT-3,752,993	c 21	N73-30640 *	US-PATENT-3,781,958	c 37	N74-15128 *
US-PATENT-3,732,040	c 15	N73-24513 *	US-PATENT-3,752,996	c 91	N74-13130 *	US-PATENT-3,782,177	c 38	N74-15395 *
US-PATENT-3,732,158	c 17	N73-24569 *	US-PATENT-3,753,148	c 09	N73-32111 *	US-PATENT-3,782,181	c 34	N74-15652 *
US-PATENT-3,732,397	c 33	N74-14935 *	US-PATENT-3,754,236	c 08	N73-32081 *	US-PATENT-3,782,205	c 35	N74-15094 *
US-PATENT-3,732,405	c 10	N73-25240 *	US-PATENT-3,754,263	c 09	N73-32110 *	US-PATENT-3,782,334	c 51	N74-15778 *
US-PATENT-3,732,409	c 08	N73-26175 *	US-PATENT-3,754,976	c 15	N73-32360 *	US-PATENT-3,782,698	c 35	N74-15093 *
US-PATENT-3,732,567	c 14	N73-25461 *	US-PATENT-3,755,265	c 06	N73-33076 *	US-PATENT-3,782,699	c 35	N74-15126 *
US-PATENT-3,733,350	c 06	N73-26100 *	US-PATENT-3,755,283	c 06	N73-32029 *	US-PATENT-3,782,737	c 37	N74-15125 *
US-PATENT-3,733,424	c 32	N73-26910 *	US-PATENT-3,755,686	c 03	N73-31988 *	US-PATENT-3,782,825	c 35	N74-15146 *
US-PATENT-3,733,463	c 14	N73-26430 *	US-PATENT-3,756,920	c 05	N73-32011 *	US-PATENT-3,782,835	c 74	N74-15095 *
US-PATENT-3,734,432	c 02	N73-26004 *	US-PATENT-3,757,183	c 09	N73-32107 *	US-PATENT-3,782,904	c 35	N74-15127 *
US-PATENT-3,735,206	c 10	N73-25243 *	US-PATENT-3,757,476	c 31	N73-32749 *	US-PATENT-3,783,250	c 62	N74-14920 *
US-PATENT-3,735,591	c 25	N73-25760 *	US-PATENT-3,757,568	c 14	N73-32323 *	US-PATENT-3,783,354	c 33	N74-14956 *
US-PATENT-3,736,453	c 33	N77-22386 *	US-PATENT-3,757,859	c 14	N73-32322 *	US-PATENT-3,783,399	c 33	N74-14939 *
US-PATENT-3,736,607	c 02	N73-26006 *	US-PATENT-3,758,112	c 05	N73-32014 *	US-PATENT-3,783,443	c 35	N74-16135 *
US-PATENT-3,736,764	c 05	N73-26071 *	US-PATENT-3,758,718	c 10	N73-32143 *	US-PATENT-3,784,499	c 27	N74-17283 *
US-PATENT-3,736,849	c 14	N73-26431 *	US-PATENT-3,758,741	c 15	N73-32358 *	US-PATENT-3,785,836	c 27	N82-29452 *
US-PATENT-3,736,938	c 05	N73-27062 *	US-PATENT-3,758,877	c 14	N73-32317 *	US-PATENT-3,787,959	c 37	N74-18128 *
US-PATENT-3,736,956	c 15	N73-26472 *	US-PATENT-3,759,152	c 16	N73-32391 *	US-PATENT-3,788,163	c 37	N74-18127 *
US-PATENT-3,737,117	c 31	N73-26876 *	US-PATENT-3,759,249	c 14	N73-32319 *	US-PATENT-3,789,654	c 25	N74-18551 *
US-PATENT-3,737,118	c 15	N73-25513 *	US-PATENT-3,759,443	c 05	N73-32015 *	US-PATENT-3,789,920	c 34	N74-18552 *
US-PATENT-3,737,121	c 02	N73-26005 *	US-PATENT-3,759,588	c 28	N73-32606 *	US-PATENT-3,789,947	c 37	N74-18125 *
US-PATENT-3,737,181	c 33	N73-26958 *	US-PATENT-3,759,672	c 15	N73-32359 *	US-PATENT-3,790,037	c 54	N74-17853 *
US-PATENT-3,737,217	c 05	N73-26072 *	US-PATENT-3,759,746	c 14	N73-32320 *	US-PATENT-3,790,347	c 37	N74-18123 *
US-PATENT-3,737,231	c 07	N73-26119 *	US-PATENT-3,759,777	c 09	N73-32108 *	US-PATENT-3,790,409	c 44	N74-18693 *
US-PATENT-3,737,237	c 26	N73-26751 *	US-PATENT-3,759,747	c 44	N74-19692 *	US-PATENT-3,790,432	c 37	N74-18126 *
US-PATENT-3,737,639	c 10	N73-26230 *	US-PATENT-3,759,787	c 22	N73-32528 *	US-PATENT-3,790,650	c 31	N74-18124 *
US-PATENT-3,737,676	c 10	N73-26229 *	US-PATENT-3,760,239	c 09	N73-32112 *	US-PATENT-3,790,795	c 35	N74-18088 *
US-PATENT-3,737,757	c 10	N73-26228 *	US-PATENT-3,760,248	c 10	N73-32145 *	US-PATENT-3,790,906	c 33	N74-17927 *
US-PATENT-3,737,762	c 14	N73-26486 *	US-PATENT-3,760,257	c 09	N73-32109 *	US-PATENT-3,791,207	c 09	N74-17955 *
US-PATENT-3,737,776	c 07	N73-26118 *	US-PATENT-3,760,268	c 14	N73-32318 *	US-PATENT-3,792,399	c 33	N74-17928 *
US-PATENT-3,737,781	c 10	N73-25241 *	US-PATENT-3,760,394	c 10	N73-32144 *	US-PATENT-3,793,109	c 31	N74-18089 *
US-PATENT-3,737,815	c 09	N73-26195 *	US-PATENT-3,762,884	c 17	N73-32414 *	US-PATENT-3,795,134	c 09	N74-19528 *
US-PATENT-3,737,824	c 26	N73-26752 *	US-PATENT-3,762,918	c 17	N73-32415 *	US-PATENT-3,795,448	c 72	N74-19310 *
US-PATENT-3,737,905	c 14	N73-26432 *	US-PATENT-3,763,204	c 06	N73-32030 *	US-PATENT-3,795,840	c 33	N74-17929 *
US-PATENT-3,737,912	c 07	N73-26117 *	US-PATENT-3,763,552	c 26	N73-32571 *	US-PATENT-3,795,858	c 35	N74-18090 *
US-PATENT-3,739,646	c 04	N76-26175 *	US-PATENT-3,763,691	c 14	N73-32327 *	US-PATENT-3,795,862	c 33	N74-17930 *
US-PATENT-3,740,671	c 10	N73-27171 *	US-PATENT-3,763,708	c 35	N74-18323 *	US-PATENT-3,795,900	c 35	N74-17885 *
US-PATENT-3,740,725	c 08	N73-26176 *	US-PATENT-3,763,740	c 11	N73-32152 *	US-PATENT-3,795,910	c 44	N74-19870 *
US-PATENT-3,741,001	c 14	N73-27376 *	US-PATENT-3,763,928	c 33	N73-32818 *	US-PATENT-3,796,473	c 37	N74-20063 *
US-PATENT-3,742,316	c 09	N73-27150 *	US-PATENT-3,764,097	c 02	N74-10034 *	US-PATENT-3,796,592	c 24	N74-19769 *
US-PATENT-3,744,128	c 09	N73-28083 *	US-PATENT-3,764,209	c 14	N73-33361 *	US-PATENT-3,797,098	c 37	N74-21057 *
US-PATENT-3,744,148	c 14	N73-28489 *	US-PATENT-3,764,220	c 16	N73-33397 *	US-PATENT-3,797,919	c 70	N74-21300 *
US-PATENT-3,744,247	c 28	N73-27699 *	US-PATENT-3,764,790	c 33	N74-10223 *	US-PATENT-3,798,741	c 31	N74-21059 *
US-PATENT-3,744,294	c 14	N73-27379 *	US-PATENT-3,764,850	c 33	N74-10195 *	US-PATENT-3,798,748	c 37	N74-21055 *
US-PATENT-3,744,305	c 12	N73-28144 *	US-PATENT-3,764,933	c 33	N74-10194 *	US-PATENT-3,798,778	c 19	N74-21015 *
US-PATENT-3,744,320	c 14	N73-28487 *	US-PATENT-3,765,229	c 35	N74-10415 *	US-PATENT-3,798,896	c 37	N74-21060 *
US-PATENT-3,744,480	c 05	N73-27941 *	US-PATENT-3,765,958	c 26	N74-10521 *	US-PATENT-3,799,149	c 52	N74-20728 *
US-PATENT-3,744,510	c 15	N73-27406 *	US-PATENT-3,766,315	c 32	N74-10132 *	US-PATENT-3,799,475	c 02	N74-20646 *
US-PATENT-3,744,738	c 14	N73-27378 *	US-PATENT-3,766,380	c 35	N74-11284 *	US-PATENT-3,799,793	c 74	N74-20008 *
US-PATENT-3,744,739	c 15	N77-10112 *	US-PATENT-3,767,212	c 37	N74-10474 *	US-PATENT-3,799,813	c 76	N74-20329 *
US-PATENT-3,744,794	c 14	N73-27377 *	US-PATENT-3,769,544	c 31	N78-17238 *	US-PATENT-3,800,074	c 36	N74-20009 *
US-PATENT-3,744,912	c 16	N73-30476 *	US-PATENT-3,769,623	c 32	N74-11000 *	US-PATENT-3,800,082	c 71	N74-21014 *
US-PATENT-3,744,913	c 14	N73-28490 *	US-PATENT-3,769,689	c 37	N74-11301 *	US-PATENT-3,800,224	c 32	N74-19790 *
US-PATENT-3,744,972	c 17	N73-27446 *	US-PATENT-3,769,834	c 52	N74-10975 *	US-PATENT-3,800,227	c 32	N74-20809 *
US-PATENT-3,745,082	c 18	N73-30532 *	US-PATENT-3,770,021	c 33	N74-11050 *	US-PATENT-3,800,237	c 32	N74-19788 *
US-PATENT-3,745,089	c 06	N73-27086 *	US-PATENT-3,770,903	c 35	N74-11283 *	US-PATENT-3,800,253	c 37	N74-21056 *
US-PATENT-3,745,090	c 04	N73-27052 *	US-PATENT-3,770,933	c 37	N74-11300 *	US-PATENT-3,801,617	c 37	N74-21058 *
US-PATENT-3,745,149	c 06	N73-27980 *	US-PATENT-3,771,037	c 08	N74-10942 *	US-PATENT-3,802,249	c 35	N74-21019 *
US-PATENT-3,745,255	c 07	N73-28012 *	US-PATENT-3,771,040	c 33	N74-11049 *	US-PATENT-3,802,253	c 52	N74-20726 *
US-PATENT-3,745,300	c 15	N73-28515 *	US-PATENT-3,771,074	c 36	N74-11313 *	US-PATENT-3,802,262	c 35	N74-21018 *
US-PATENT-3,745,352	c 08	N73-30135 *	US-PATENT-3,771,959	c 25	N74-12813 *	US-PATENT-3,802,660	c 37	N74-21065 *
US-PATENT-3,745,357	c 14	N73-28488 *	US-PATENT-3,772,174	c 27	N74-13270 *	US-PATENT-3,802,753	c 37	N74-21064 *
US-PATENT-3,745,410	c 09	N73-30181 *	US-PATENT-3,772,216	c 27	N74-12812 *	US-PATENT-3,802,779	c 74	N74-21304 *
US-PATENT-3,745,475	c 14	N73-30386 *	US-PATENT-3,772,220	c 27	N74-12814 *	US-PATENT-3,803,090	c 27	N74-21156 *
US-PATENT-3,745,739	c 15	N73-27405 *	US-PATENT-3,772,272	c 33	N74-12887 *	US-PATENT-3,803,393	c 60	N74-20836 *
US-PATENT-3,745,816	c 33	N73-27796 *	US-PATENT-3,772,418	c 31	N74-13177 *	US-PATENT-3,803,445	c 32	N74-20813 *
US-PATENT-3,746,998	c 07	N73-30113 *	US-PATENT-3,772,691	c 32	N74-12912 *	US-PATENT-3,803,617	c 32	N74-20863 *
US-PATENT-3,747,111	c 07	N73-28013 *	US-PATENT-3,773,038	c 52	N74-12778 *	US-PATENT-3,804,472	c 37	N74-21061 *
US-PATENT-3,748,722	c 15	N73-33383 *	US-PATENT-3,773,913	c 46	N74-13011 *	US-PATENT-3,804,506	c 33	N74-20861 *
US-PATENT-3,748,853	c 23	N73-30665 *	US-PATENT-3,775,101	c 37	N74-13179 *	US-PATENT-3,804,525	c 36	N74-21091 *
US-PATENT-3,748,905	c 14	N73-30395 *	US-PATENT-3,775,570	c 35	N78-29421 *	US-PATENT-3,804,703	c 37	N74-21063 *
US-PATENT-3,749,123	c 15	N73-30459 *	US-PATENT-3,776,028	c 35	N74-13129 *	US-PATENT-3,805,266	c 32	N74-20864 *
US-PATENT-3,749,156	c 31	N73-30829 *	US-PATENT-3,776,432	c 37	N74-13178 *	US-PATENT-3,805,303	c 54	N74-20725 *
US-PATENT-3,749,205	c 15	N73-30460 *	US-PATENT-3,776,455	c 04	N74-13420 *	US-PATENT-3,805,622	c 35	N74-21062 *
US-PATENT-3,749,332	c 31	N73-32750 *	US-PATENT-3,777,200	c 33	N74-12913 *	US-PATENT-3,806,756	c 33	N74-21850 *
US-PATENT-3,749,362	c 15	N73-30457 *	US-PATENT-3,777,490	c 20	N74-13502 *	US-PATENT-3,806,802	c 35	N74-21017 *
US-PATENT-3,749,831	c 07	N73-30115 *	US-PATENT-3,777,546	c 35	N74-13132 *	US-PATENT-3,806,815	c 32	N74-20811 *
US-PATENT-3,749,911	c 14	N73-30389 *	US-PATENT-3,777,552	c 38	N74-15130 *	US-PATENT-3,806,816	c 32	N74-20810 *
US-PATENT-3,750,016	c 14	N73-30388 *	US-PATENT-3,777,605	c 39	N74-13131 *	US-PATENT-3,806,831	c 33	N74-20862 *
US-PATENT-3,750,035	c 33	N77-13315 *	US-PATENT-3,777,811	c 34	N78-17336 *	US-PATENT-3,806,834	c 36	N76-18427 *
US-PATENT-3,750,067	c 09	N73-30185 *	US-PATENT-3,777,942	c 54	N74-12779 *	US-PATENT-3,806,835	c 33	N74-20859 *
US-PATENT-3,750,131	c 10	N73-30205 *	US-PATENT-3,778,685	c 33	N74-12951 *	US-PATENT-3,806,932	c 33	N74-20860 *
US-PATENT-3,750,168	c 21	N73-30641 *	US-PATENT-3,778,786	c 60	N74-12888 *	US-PATENT-3,807,384	c 34	N74-23039 *
US-PATENT-3,750,479	c 05	N73-30078 *	US-PATENT-3,778,791	c 36	N74-13205 *	US-PATENT-3,807,656	c 18	N74-22136 *
US-PATENT-3,751,123	c 15	N73-30458 *	US-PATENT-3,779,788	c 70	N74-13436 *	US-PATENT-3,808,464	c 33	N74-22814 *
US-PATENT-3,751,727	c 05	N73-32012 *	US-PATENT-3,780,151	c 31	N74-14133 *	US-PATENT-3,808,511	c 33	N74-22864 *
US-PATENT-3,751,733	c 05	N73-32013 *	US-PATENT-3,780,424	c 44	N74-14784 *	US-PATENT-3,808,517	c 33	N74-22885 *
US-PATENT-3,751,913	c 06	N73-30097 *	US-PATENT-3,780,563	c 35	N74-15092 *	US-PATENT-3,809,481	c 35	N74-23040 *
US-PATENT-3,751,980	c 14	N73-32326 *	US-PATENT-3,780,827	c 07	N74-15453 *	US-PATENT-3,809,601	c 37	N74-23064 *

US-PATENT-3,809,800	c 33	N74-22865 *	US-PATENT-3,848,190	c 35	N75-12270 *	US-PATENT-3,887,233	c 05	N75-25915 *
US-PATENT-3,809,871	c 52	N74-22771 *	US-PATENT-3,849,554	c 52	N75-15270 *	US-PATENT-3,887,345	c 35	N75-26334 *
US-PATENT-3,810,829	c 31	N74-23065 *	US-PATENT-3,849,668	c 54	N75-12616 *	US-PATENT-3,887,365	c 37	N75-26371 *
US-PATENT-3,811,044	c 34	N74-23066 *	US-PATENT-3,849,720	c 33	N77-26387 *	US-PATENT-3,888,362	c 54	N75-27758 *
US-PATENT-3,811,094	c 33	N74-21851 *	US-PATENT-3,849,865	c 37	N75-13261 *	US-PATENT-3,888,410	c 34	N75-26282 *
US-PATENT-3,811,429	c 52	N74-27566 *	US-PATENT-3,849,875	c 35	N75-13213 *	US-PATENT-3,888,561	c 35	N75-27328 *
US-PATENT-3,811,901	c 27	N82-29454 *	US-PATENT-3,849,877	c 24	N75-13032 *	US-PATENT-3,888,705	c 25	N75-26043 *
US-PATENT-3,812,358	c 35	N74-26949 *	US-PATENT-3,850,169	c 54	N75-13531 *	US-PATENT-3,889,064	c 32	N75-26195 *
US-PATENT-3,812,783	c 28	N74-27425 *	US-PATENT-3,850,388	c 05	N75-12930 *	US-PATENT-3,889,122	c 37	N75-26372 *
US-PATENT-3,812,924	c 35	N74-26945 *	US-PATENT-3,850,567	c 31	N75-13111 *	US-PATENT-3,889,155	c 33	N75-26244 *
US-PATENT-3,812,936	c 37	N74-26976 *	US-PATENT-3,850,754	c 51	N75-13502 *	US-PATENT-3,889,182	c 33	N75-26245 *
US-PATENT-3,813,183	c 37	N74-25968 *	US-PATENT-3,851,162	c 60	N75-13539 *	US-PATENT-3,889,185	c 33	N75-26246 *
US-PATENT-3,813,837	c 15	N74-27360 *	US-PATENT-3,851,238	c 33	N75-13139 *	US-PATENT-3,889,264	c 32	N75-26194 *
US-PATENT-3,813,975	c 34	N74-27859 *	US-PATENT-3,851,250	c 15	N75-13007 *	US-PATENT-3,891,311	c 54	N75-27759 *
US-PATENT-3,814,083	c 52	N74-26626 *	US-PATENT-3,853,003	c 09	N75-12969 *	US-PATENT-3,891,452	c 27	N75-27160 *
US-PATENT-3,814,350	c 18	N74-27397 *	US-PATENT-3,853,075	c 09	N75-12968 *	US-PATENT-3,891,533	c 33	N75-27252 *
US-PATENT-3,814,645	c 24	N74-30001 *	US-PATENT-3,854,097	c 75	N75-13625 *	US-PATENT-3,891,848	c 45	N75-27585 *
US-PATENT-3,814,653	c 24	N74-27035 *	US-PATENT-3,854,113	c 37	N75-13265 *	US-PATENT-3,891,851	c 35	N75-27331 *
US-PATENT-3,814,678	c 25	N74-26948 *	US-PATENT-3,855,873	c 37	N75-13266 *	US-PATENT-3,893,449	c 54	N75-27760 *
US-PATENT-3,814,939	c 25	N74-26947 *	US-PATENT-3,856,042	c 37	N75-15050 *	US-PATENT-3,893,458	c 54	N75-27761 *
US-PATENT-3,815,048	c 33	N74-26732 *	US-PATENT-3,856,402	c 36	N75-15028 *	US-PATENT-3,893,573	c 18	N75-27041 *
US-PATENT-3,815,109	c 52	N74-26625 *	US-PATENT-3,856,471	c 25	N75-14844 *	US-PATENT-3,894,289	c 36	N75-27364 *
US-PATENT-3,815,205	c 33	N74-26977 *	US-PATENT-3,856,534	c 23	N75-14834 *	US-PATENT-3,894,677	c 24	N75-28135 *
US-PATENT-3,815,969	c 35	N74-26946 *	US-PATENT-3,857,031	c 35	N75-15014 *	US-PATENT-3,894,887	c 44	N75-28340 *
US-PATENT-3,816,657	c 32	N74-26654 *	US-PATENT-3,857,045	c 33	N75-14957 *	US-PATENT-3,895,521	c 35	N75-29381 *
US-PATENT-3,816,785	c 73	N74-26767 *	US-PATENT-3,859,119	c 36	N75-15029 *	US-PATENT-3,895,912	c 35	N75-29380 *
US-PATENT-3,817,082	c 34	N74-27730 *	US-PATENT-3,859,714	c 37	N75-15992 *	US-PATENT-3,896,758	c 35	N75-33367 *
US-PATENT-3,817,084	c 31	N74-27900 *	US-PATENT-3,859,714	c 24	N79-25143 *	US-PATENT-3,896,955	c 37	N77-22480 *
US-PATENT-3,817,622	c 75	N74-30156 *	US-PATENT-3,859,736	c 09	N75-15662 *	US-PATENT-3,898,578	c 33	N75-30428 *
US-PATENT-3,817,627	c 35	N74-27860 *	US-PATENT-3,859,840	c 35	N75-15932 *	US-PATENT-3,898,730	c 24	N75-30260 *
US-PATENT-3,818,325	c 44	N74-27519 *	US-PATENT-3,859,845	c 35	N75-15931 *	US-PATENT-3,898,882	c 35	N75-30503 *
US-PATENT-3,818,346	c 33	N74-27705 *	US-PATENT-3,860,342	c 35	N75-16783 *	US-PATENT-3,899,224	c 37	N75-30562 *
US-PATENT-3,818,767	c 35	N74-28097 *	US-PATENT-3,860,393	c 25	N76-18245 *	US-PATENT-3,899,252	c 35	N75-30502 *
US-PATENT-3,818,775	c 37	N74-27901 *	US-PATENT-3,860,658	c 33	N75-15874 *	US-PATENT-3,899,517	c 23	N75-30256 *
US-PATENT-3,818,814	c 31	N74-27902 *	US-PATENT-3,860,921	c 32	N75-15854 *	US-PATENT-3,899,680	c 73	N75-30876 *
US-PATENT-3,819,299	c 37	N74-27904 *	US-PATENT-3,860,946	c 33	N79-11314 *	US-PATENT-3,899,696	c 36	N75-30524 *
US-PATENT-3,819,419	c 34	N74-27861 *	US-PATENT-3,863,881	c 37	N75-18573 *	US-PATENT-3,899,745	c 33	N75-30429 *
US-PATENT-3,819,440	c 32	N74-27612 *	US-PATENT-3,864,060	c 35	N75-19611 *	US-PATENT-3,900,705	c 33	N75-30431 *
US-PATENT-3,819,550	c 27	N74-27037 *	US-PATENT-3,864,239	c 37	N75-19684 *	US-PATENT-3,900,741	c 35	N75-30504 *
US-PATENT-3,820,095	c 33	N74-27862 *	US-PATENT-3,864,542	c 37	N75-19683 *	US-PATENT-3,900,847	c 03	N75-30132 *
US-PATENT-3,820,286	c 37	N74-27905 *	US-PATENT-3,864,797	c 20	N75-18310 *	US-PATENT-3,902,143	c 33	N75-30430 *
US-PATENT-3,820,388	c 35	N74-27865 *	US-PATENT-3,864,953	c 35	N75-19615 *	US-PATENT-3,903,699	c 44	N75-32581 *
US-PATENT-3,820,529	c 52	N74-27864 *	US-PATENT-3,864,960	c 35	N75-19612 *	US-PATENT-3,905,356	c 33	N75-31329 *
US-PATENT-3,820,630	c 07	N74-27490 *	US-PATENT-3,865,442	c 37	N75-18574 *	US-PATENT-3,905,660	c 37	N75-31446 *
US-PATENT-3,820,741	c 37	N74-27903 *	US-PATENT-3,865,975	c 36	N75-19652 *	US-PATENT-3,906,231	c 33	N75-31332 *
US-PATENT-3,820,918	c 07	N74-28226 *	US-PATENT-3,866,022	c 33	N75-19519 *	US-PATENT-3,906,296	c 33	N75-31331 *
US-PATENT-3,821,102	c 34	N74-27744 *	US-PATENT-3,866,114	c 33	N75-18477 *	US-PATENT-3,906,374	c 33	N75-31330 *
US-PATENT-3,821,462	c 33	N74-27683 *	US-PATENT-3,866,128	c 33	N75-19515 *	US-PATENT-3,906,393	c 36	N75-31427 *
US-PATENT-3,821,546	c 33	N74-27682 *	US-PATENT-3,866,210	c 33	N75-19517 *	US-PATENT-3,906,397	c 36	N75-31426 *
US-PATENT-3,821,556	c 74	N74-27866 *	US-PATENT-3,866,233	c 33	N75-19516 *	US-PATENT-3,906,398	c 36	N75-32441 *
US-PATENT-3,824,707	c 09	N74-30597 *	US-PATENT-3,866,663	c 18	N75-19329 *	US-PATENT-3,906,769	c 24	N75-33181 *
US-PATENT-3,825,760	c 19	N74-29410 *	US-PATENT-3,867,677	c 33	N75-19524 *	US-PATENT-3,906,788	c 35	N75-33369 *
US-PATENT-3,826,448	c 08	N74-30421 *	US-PATENT-3,868,591	c 36	N75-19655 *	US-PATENT-3,906,913	c 37	N76-18457 *
US-PATENT-3,826,726	c 25	N74-30502 *	US-PATENT-3,868,830	c 77	N75-20139 *	US-PATENT-3,906,954	c 52	N75-33640 *
US-PATENT-3,826,729	c 20	N74-31269 *	US-PATENT-3,868,856	c 35	N75-19614 *	US-PATENT-3,907,312	c 37	N75-33395 *
US-PATENT-3,826,964	c 33	N74-29556 *	US-PATENT-3,869,151	c 37	N75-19686 *	US-PATENT-3,907,646	c 35	N75-33368 *
US-PATENT-3,827,288	c 71	N74-31148 *	US-PATENT-3,869,160	c 37	N75-19685 *	US-PATENT-3,907,686	c 34	N75-33342 *
US-PATENT-3,827,807	c 89	N74-30886 *	US-PATENT-3,869,210	c 36	N75-19653 *	US-PATENT-3,908,118	c 38	N78-17395 *
US-PATENT-3,828,137	c 32	N74-30524 *	US-PATENT-3,869,212	c 35	N75-19613 *	US-PATENT-3,909,602	c 38	N78-17396 *
US-PATENT-3,828,138	c 32	N74-30523 *	US-PATENT-3,869,597	c 77	N75-20140 *	US-PATENT-3,910,035	c 20	N76-14190 *
US-PATENT-3,828,524	c 34	N74-30608 *	US-PATENT-3,869,615	c 35	N75-19616 *	US-PATENT-3,910,039	c 20	N76-14191 *
US-PATENT-3,829,237	c 07	N74-31270 *	US-PATENT-3,869,624	c 33	N75-18479 *	US-PATENT-3,910,257	c 52	N76-14757 *
US-PATENT-3,829,839	c 60	N76-18800 *	US-PATENT-3,869,659	c 33	N75-19522 *	US-PATENT-3,910,307	c 37	N76-14663 *
US-PATENT-3,830,060	c 44	N74-33379 *	US-PATENT-3,869,667	c 33	N75-19521 *	US-PATENT-3,910,533	c 18	N76-14186 *
US-PATENT-3,830,094	c 35	N74-32879 *	US-PATENT-3,869,676	c 33	N75-19520 *	US-PATENT-3,910,814	c 24	N76-14204 *
US-PATENT-3,830,335	c 07	N74-32418 *	US-PATENT-3,869,680	c 36	N75-19654 *	US-PATENT-3,911,260	c 35	N76-14431 *
US-PATENT-3,830,431	c 07	N74-33218 *	US-PATENT-3,869,779	c 26	N75-19408 *	US-PATENT-3,911,330	c 33	N76-14373 *
US-PATENT-3,830,552	c 37	N74-32921 *	US-PATENT-3,872,395	c 33	N75-19518 *	US-PATENT-3,912,540	c 44	N76-14600 *
US-PATENT-3,830,609	c 31	N74-32920 *	US-PATENT-3,874,240	c 35	N75-25122 *	US-PATENT-3,912,541	c 44	N76-14601 *
US-PATENT-3,830,673	c 28	N74-33209 *	US-PATENT-3,874,635	c 37	N75-25185 *	US-PATENT-3,912,999	c 44	N76-18643 *
US-PATENT-3,831,098	c 33	N74-32711 *	US-PATENT-3,874,677	c 37	N75-21631 *	US-PATENT-3,914,950	c 31	N76-14284 *
US-PATENT-3,831,117	c 33	N74-32712 *	US-PATENT-3,875,332	c 32	N75-21486 *	US-PATENT-3,914,969	c 37	N76-14461 *
US-PATENT-3,831,142	c 32	N74-32598 *	US-PATENT-3,875,394	c 33	N75-26243 *	US-PATENT-3,914,991	c 35	N76-14430 *
US-PATENT-3,832,290	c 20	N74-32919 *	US-PATENT-3,875,404	c 35	N75-23910 *	US-PATENT-3,914,997	c 35	N76-14429 *
US-PATENT-3,832,735	c 54	N74-32546 *	US-PATENT-3,875,435	c 20	N75-24837 *	US-PATENT-3,915,012	c 54	N76-14804 *
US-PATENT-3,832,764	c 37	N74-32918 *	US-PATENT-3,875,500	c 35	N75-21582 *	US-PATENT-3,915,148	c 44	N76-14602 *
US-PATENT-3,832,781	c 35	N74-32877 *	US-PATENT-3,875,584	c 32	N75-21485 *	US-PATENT-3,915,416	c 15	N76-14158 *
US-PATENT-3,832,903	c 35	N74-32878 *	US-PATENT-3,877,833	c 37	N75-25186 *	US-PATENT-3,915,482	c 37	N76-14460 *
US-PATENT-3,833,322	c 31	N74-32917 *	US-PATENT-3,878,464	c 32	N75-24981 *	US-PATENT-3,915,572	c 36	N76-14447 *
US-PATENT-3,833,336	c 25	N74-33378 *	US-PATENT-3,881,132	c 33	N77-21315 *	US-PATENT-3,916,060	c 27	N76-15310 *
US-PATENT-3,833,857	c 33	N74-32660 *	US-PATENT-3,882,417	c 36	N78-17366 *	US-PATENT-3,916,084	c 33	N76-14371 *
US-PATENT-3,835,318	c 35	N74-34857 *	US-PATENT-3,882,530	c 76	N75-25730 *	US-PATENT-3,916,187	c 35	N76-15431 *
US-PATENT-3,837,285	c 85	N74-34672 *	US-PATENT-3,882,634	c 51	N75-25503 *	US-PATENT-3,916,316	c 32	N76-14321 *
US-PATENT-3,837,908	c 76	N79-16678 *	US-PATENT-3,882,719	c 14	N75-24794 *	US-PATENT-3,916,380	c 60	N76-14818 *
US-PATENT-3,840,829	c 33	N74-34638 *	US-PATENT-3,882,732	c 12	N75-24774 *	US-PATENT-3,916,761	c 75	N76-14931 *
US-PATENT-3,841,973	c 35	N75-12272 *	US-PATENT-3,882,846	c 05	N75-24716 *	US-PATENT-3,919,014	c 24	N76-14203 *
US-PATENT-3,842,485	c 37	N75-12326 *	US-PATENT-3,883,095	c 07	N75-24736 *	US-PATENT-3,919,710	c 33	N76-14372 *
US-PATENT-3,842,509	c 35	N75-12273 *	US-PATENT-3,883,215	c 35	N75-25124 *	US-PATENT-3,920,339	c 27	N76-14264 *
US-PATENT-3,842,656	c 76	N75-12810 *	US-PATENT-3,883,436	c 74	N75-25706 *	US-PATENT-3,920,413	c 44	N76-14595 *
US-PATENT-3,845,466	c 74	N81-19896 *	US-PATENT-3,883,689	c 35	N75-25123 *	US-PATENT-3,920,416	c 44	N76-18642 *
US-PATENT-3,846,243	c 25	N75-12086 *	US-PATENT-3,883,785	c 09	N75-24758 *	US-PATENT-3,922,930	c 37	N76-15457 *
US-PATENT-3,847,115	c 31	N75-12161 *	US-PATENT-3,883,812	c 33	N75-25041 *	US-PATENT-3,923,166	c 37	N76-15460 *
US-PATENT-3,847,141	c 35	N75-12271 *	US-PATENT-3,883,817	c 33	N75-25040 *	US-PATENT-3,924,068	c 32	N76-16249 *
US-PATENT-3,847,208	c 34	N75-12222 *	US-PATENT-3,883,872	c 32	N75-24982 *	US-PATENT-3,924,137	c 72	N76-15860 *
US-PATENT-3,847,652	c 25	N75-12087 *	US-PATENT-3,884,432	c 05	N75-25914 *	US-PATENT-3,924,164	c 33	N76-15373 *
US-PATENT-3,847,689	c 74	N75-12732 *	US-PATENT-3,884,765	c 35	N75-27330 *	US-PATENT-3,924,176	c 35	N76-16390 *

US-PATENT-3,924,183	c 33	N76-16331 *	US-PATENT-3,964,306	c 34	N76-27517 *	US-PATENT-4, 359,503	c 24	N83-33950 *
US-PATENT-3,924,200	c 35	N76-15436 *	US-PATENT-3,964,319	c 07	N76-27232 *	US-PATENT-4,000,682	c 20	N77-17143 *
US-PATENT-3,924,237	c 32	N76-15330	US-PATENT-3,964,813	c 37	N76-27567 *	US-PATENT-4,000,929	c 37	N77-17464 *
US-PATENT-3,924,239	c 35	N76-15435 *	US-PATENT-3,964,902	c 34	N76-27515 *	US-PATENT-4,001,552	c 38	N77-17495 *
US-PATENT-3,924,267	c 35	N76-16391 *	US-PATENT-3,964,928	c 44	N76-27664 *	US-PATENT-4,001,602	c 33	N77-17354 *
US-PATENT-3,924,444	c 35	N76-15432	US-PATENT-3,965,096	c 27	N76-32315 *	US-PATENT-4,003,004	c 33	N77-17351 *
US-PATENT-3,925,104	c 35	N76-15434 *	US-PATENT-3,965,354	c 33	N76-27473 *	US-PATENT-4,003,084	c 35	N77-17426 *
US-PATENT-3,925,312	c 23	N76-15268 *	US-PATENT-3,965,475	c 33	N76-27472 *	US-PATENT-4,003,257	c 23	N77-17161 *
US-PATENT-3,926,482	c 37	N76-15461 *	US-PATENT-3,966,499	c 44	N76-31666 *	US-PATENT-4,004,292	c 74	N77-18893 *
US-PATENT-3,926,567	c 27	N76-15311 *	US-PATENT-3,966,547	c 25	N76-27383 *	US-PATENT-4,005,574	c 07	N77-17059 *
US-PATENT-3,927,227	c 12	N76-15189 *	US-PATENT-3,967,091	c 37	N76-27568 *	US-PATENT-4,006,631	c 04	N77-19056 *
US-PATENT-3,927,324	c 35	N76-15433	US-PATENT-3,971,230	c 37	N76-29590 *	US-PATENT-4,006,999	c 24	N77-19170 *
US-PATENT-3,927,408	c 32	N76-15329	US-PATENT-3,971,256	c 91	N76-30131 *	US-PATENT-4,007,430	c 36	N77-18416 *
US-PATENT-3,928,708	c 27	N76-16230 *	US-PATENT-3,971,362	c 52	N76-29894 *	US-PATENT-4,007,434	c 32	N77-18307 *
US-PATENT-3,929,119	c 75	N76-17951 *	US-PATENT-3,971,363	c 52	N76-29895 *	US-PATENT-4,007,601	c 34	N77-19353 *
US-PATENT-3,929,305	c 34	N76-17317 *	US-PATENT-3,971,364	c 52	N76-29896 *	US-PATENT-4,007,623	c 35	N77-18417 *
US-PATENT-3,929,306	c 18	N76-17185 *	US-PATENT-3,971,365	c 05	N76-29217 *	US-PATENT-4,007,891	c 07	N77-18154 *
US-PATENT-3,929,364	c 35	N76-16392	US-PATENT-3,971,535	c 37	N76-29588 *	US-PATENT-4,008,348	c 34	N77-18382 *
US-PATENT-3,930,628	c 02	N76-16014 *	US-PATENT-3,971,697	c 25	N76-29379 *	US-PATENT-4,008,407	c 73	N77-18891 *
US-PATENT-3,930,735	c 66	N76-19888 *	US-PATENT-3,971,703	c 51	N76-29891 *	US-PATENT-4,010,455	c 37	N77-19458 *
US-PATENT-3,931,132	c 27	N76-16228 *	US-PATENT-3,971,847	c 44	N76-29704 *	US-PATENT-4,010,455	c 37	N78-31426 *
US-PATENT-3,931,447	c 27	N76-16229 *	US-PATENT-3,971,915	c 35	N76-29552 *	US-PATENT-4,011,719	c 20	N77-20162 *
US-PATENT-3,931,456	c 33	N76-16332 *	US-PATENT-3,971,930	c 74	N76-30053 *	US-PATENT-4,011,756	c 35	N77-20400 *
US-PATENT-3,931,462	c 45	N76-17656 *	US-PATENT-3,971,940	c 35	N76-29551 *	US-PATENT-4,011,854	c 35	N77-20401 *
US-PATENT-3,931,516	c 35	N76-16393 *	US-PATENT-3,972,008	c 36	N76-29575 *	US-PATENT-4,012,018	c 35	N77-20399 *
US-PATENT-3,931,532	c 44	N76-16612 *	US-PATENT-3,972,038	c 17	N76-29347 *	US-PATENT-4,012,123	c 74	N77-20882 *
US-PATENT-3,932,262	c 25	N79-10163 *	US-PATENT-3,972,651	c 44	N76-29701 *	US-PATENT-4,012,237	c 26	N77-20201 *
US-PATENT-3,936,927	c 37	N76-19437 *	US-PATENT-3,972,727	c 44	N76-29699 *	US-PATENT-4,012,696	c 32	N77-20289 *
US-PATENT-3,937,055	c 37	N76-18454 *	US-PATENT-3,976,997	c 62	N76-31946 *	US-PATENT-4,014,745	c 51	N77-22794 *
US-PATENT-3,937,212	c 33	N76-19338 *	US-PATENT-3,977,147	c 39	N76-31562 *	US-PATENT-4,014,798	c 25	N81-17187 *
US-PATENT-3,937,215	c 52	N76-19785 *	US-PATENT-3,977,197	c 44	N76-31667 *	US-PATENT-4,017,959	c 37	N77-23482 *
US-PATENT-3,937,387	c 37	N76-18455 *	US-PATENT-3,977,231	c 35	N76-31489 *	US-PATENT-4,018,080	c 35	N77-22450 *
US-PATENT-3,937,533	c 37	N76-18459 *	US-PATENT-3,977,771	c 74	N76-31998 *	US-PATENT-4,018,085	c 35	N77-22449 *
US-PATENT-3,937,555	c 35	N76-18402 *	US-PATENT-3,977,787	c 35	N76-31490 *	US-PATENT-4,018,092	c 37	N77-22482 *
US-PATENT-3,937,661	c 37	N76-18456 *	US-PATENT-3,977,831	c 45	N76-31714 *	US-PATENT-4,018,409	c 37	N77-23483 *
US-PATENT-3,937,945	c 74	N76-18913 *	US-PATENT-3,978,187	c 37	N76-31524 *	US-PATENT-4,018,423	c 54	N77-21844 *
US-PATENT-3,938,035	c 33	N76-19339 *	US-PATENT-3,978,287	c 32	N76-31372 *	US-PATENT-4,018,532	c 74	N77-22951 *
US-PATENT-3,938,037	c 26	N76-18257 *	US-PATENT-3,978,360	c 33	N76-31409 *	US-PATENT-4,018,533	c 74	N77-22950 *
US-PATENT-3,938,162	c 32	N76-18295 *	US-PATENT-3,978,364	c 31	N76-31365 *	US-PATENT-4,018,649	c 51	N77-25769 *
US-PATENT-3,938,182	c 33	N76-18353 *	US-PATENT-3,978,410	c 03	N76-32140 *	US-PATENT-4,018,971	c 44	N77-22606 *
US-PATENT-3,938,188	c 33	N76-18345 *	US-PATENT-3,978,417	c 36	N76-31512 *	US-PATENT-4,019,179	c 32	N77-21267 *
US-PATENT-3,938,367	c 35	N76-18401 *	US-PATENT-3,978,490	c 33	N76-32457 *	US-PATENT-4,019,868	c 44	N77-22607 *
US-PATENT-3,938,373	c 35	N76-18400 *	US-PATENT-3,982,910	c 44	N77-10636 *	US-PATENT-4,020,632	c 07	N77-23106 *
US-PATENT-3,938,742	c 07	N76-18117 *	US-PATENT-3,983,695	c 20	N77-10148 *	US-PATENT-4,023,266	c 33	N77-26385 *
US-PATENT-3,938,892	c 74	N76-19935 *	US-PATENT-3,983,714	c 31	N77-10229 *	US-PATENT-4,025,327	c 35	N77-24455 *
US-PATENT-3,938,956	c 35	N76-18403 *	US-PATENT-3,983,749	c 09	N77-10071 *	US-PATENT-4,025,783	c 74	N77-26942 *
US-PATENT-3,939,048	c 37	N76-18458 *	US-PATENT-3,983,753	c 52	N77-10780 *	US-PATENT-4,025,866	c 33	N77-24375 *
US-PATENT-3,939,439	c 36	N76-18428 *	US-PATENT-3,983,780	c 28	N77-10213 *	US-PATENT-4,025,875	c 36	N77-25499 *
US-PATENT-3,940,097	c 34	N76-18364 *	US-PATENT-3,983,933	c 34	N77-10463 *	US-PATENT-4,025,876	c 71	N77-26919 *
US-PATENT-3,940,621	c 34	N76-18374 *	US-PATENT-3,984,070	c 02	N77-10001 *	US-PATENT-4,025,891	c 35	N77-24454 *
US-PATENT-3,941,355	c 37	N76-19436 *	US-PATENT-3,984,072	c 15	N77-10113 *	US-PATENT-4,025,950	c 32	N77-24328 *
US-PATENT-3,942,398	c 37	N76-20480 *	US-PATENT-3,984,256	c 44	N77-10635 *	US-PATENT-4,025,964	c 52	N77-25772 *
US-PATENT-3,943,368	c 74	N76-20958 *	US-PATENT-3,984,634	c 32	N77-10392 *	US-PATENT-4,026,527	c 34	N77-24423 *
US-PATENT-3,943,442	c 76	N76-20994 *	US-PATENT-3,984,671	c 43	N77-10584 *	US-PATENT-4,026,655	c 36	N77-25501 *
US-PATENT-3,943,763	c 04	N76-20114 *	US-PATENT-3,984,681	c 35	N77-10492 *	US-PATENT-4,027,212	c 33	N77-26386 *
US-PATENT-3,944,485	c 25	N81-19244 *	US-PATENT-3,984,685	c 47	N77-10753 *	US-PATENT-4,027,265	c 32	N77-24331 *
US-PATENT-3,945,801	c 45	N76-21742 *	US-PATENT-3,984,686	c 35	N77-10493 *	US-PATENT-4,027,273	c 36	N77-25502 *
US-PATENT-3,945,879	c 37	N76-21554 *	US-PATENT-3,984,730	c 33	N77-10429 *	US-PATENT-4,027,494	c 35	N78-12390 *
US-PATENT-3,947,281	c 27	N82-29455 *	US-PATENT-3,984,799	c 33	N77-10428 *	US-PATENT-4,027,524	c 09	N77-27131 *
US-PATENT-3,947,933	c 20	N76-21276 *	US-PATENT-3,985,454	c 74	N77-10899 *	US-PATENT-4,028,939	c 34	N77-27345 *
US-PATENT-3,948,102	c 33	N76-21390 *	US-PATENT-3,987,630	c 37	N77-12402 *	US-PATENT-4,029,470	c 51	N77-27877 *
US-PATENT-3,948,470	c 20	N76-21275 *	US-PATENT-3,988,561	c 37	N77-11397 *	US-PATENT-4,029,500	c 24	N77-27187 *
US-PATENT-3,949,206	c 32	N76-21366 *	US-PATENT-3,988,677	c 32	N77-12240 *	US-PATENT-4,029,838	c 24	N77-27188 *
US-PATENT-3,949,400	c 17	N76-21250 *	US-PATENT-3,988,716	c 60	N77-12721 *	US-PATENT-4,030,047	c 35	N77-27366 *
US-PATENT-3,949,404	c 32	N76-21365 *	US-PATENT-3,988,729	c 32	N77-12239 *	US-PATENT-4,030,348	c 39	N78-10493 *
US-PATENT-3,950,729	c 60	N76-21914 *	US-PATENT-3,988,933	c 35	N77-19385 *	US-PATENT-4,031,389	c 36	N77-26477 *
US-PATENT-3,951,129	c 44	N76-22657 *	US-PATENT-3,989,136	c 37	N77-19457 *	US-PATENT-4,032,089	c 24	N77-28225 *
US-PATENT-3,952,083	c 27	N76-22376 *	US-PATENT-3,989,206	c 09	N77-19076 *	US-PATENT-4,032,089	c 27	N81-14077 *
US-PATENT-3,952,590	c 09	N76-23273 *	US-PATENT-3,989,541	c 44	N77-19571 *	US-PATENT-4,033,119	c 07	N77-28118 *
US-PATENT-3,952,971	c 02	N76-22154 *	US-PATENT-3,989,602	c 24	N77-19171 *	US-PATENT-4,033,133	c 28	N80-10374 *
US-PATENT-3,952,976	c 37	N76-22540 *	US-PATENT-3,990,049	c 60	N77-19760 *	US-PATENT-4,033,162	c 39	N77-28511 *
US-PATENT-3,952,980	c 19	N76-22284 *	US-PATENT-3,990,860	c 27	N77-13217 *	US-PATENT-4,033,286	c 25	N79-28253 *
US-PATENT-3,952,998	c 20	N76-22296 *	US-PATENT-3,990,987	c 37	N77-13418 *	US-PATENT-4,033,316	c 33	N77-28385 *
US-PATENT-3,953,038	c 37	N76-22541 *	US-PATENT-3,994,128	c 07	N77-14025 *	US-PATENT-4,033,334	c 52	N77-28717 *
US-PATENT-3,953,343	c 24	N76-22309 *	US-PATENT-3,995,324	c 52	N77-14735 *	US-PATENT-4,033,349	c 52	N77-28716 *
US-PATENT-3,953,646	c 27	N76-22377 *	US-PATENT-3,995,476	c 35	N77-14407 *	US-PATENT-4,033,479	c 37	N77-28487 *
US-PATENT-3,953,674	c 17	N76-22245 *	US-PATENT-3,995,522	c 37	N77-14478 *	US-PATENT-4,033,503	c 26	N77-29260 *
US-PATENT-3,953,734	c 25	N76-22323 *	US-PATENT-3,995,621	c 52	N77-14736 *	US-PATENT-4,033,504	c 26	N77-28265 *
US-PATENT-3,953,792	c 35	N76-22509 *	US-PATENT-3,995,644	c 52	N77-14738 *	US-PATENT-4,033,705	c 07	N77-27116 *
US-PATENT-3,955,034	c 27	N76-23426 *	US-PATENT-3,995,789	c 37	N77-14479 *	US-PATENT-4,033,882	c 32	N77-28346 *
US-PATENT-3,955,941	c 44	N76-29700 *	US-PATENT-3,995,877	c 37	N77-14477 *	US-PATENT-4,035,037	c 37	N77-28486 *
US-PATENT-3,956,032	c 76	N76-25049 *	US-PATENT-3,995,960	c 35	N77-14411 *	US-PATENT-4,035,062	c 74	N77-28932 *
US-PATENT-3,956,050	c 37	N76-24575 *	US-PATENT-3,996,064	c 44	N77-14581 *	US-PATENT-4,035,065	c 74	N77-28933 *
US-PATENT-3,956,233	c 27	N76-24405 *	US-PATENT-3,996,067	c 44	N77-14580 *	US-PATENT-4,038,705	c 54	N77-30749 *
US-PATENT-3,956,833	c 09	N76-24280 *	US-PATENT-3,996,070	c 35	N77-14409 *	US-PATENT-4,039,489	c 27	N77-31308 *
US-PATENT-3,956,919	c 35	N76-24523 *	US-PATENT-3,996,455	c 60	N77-14751 *	US-PATENT-4,039,946	c 35	N77-30436 *
US-PATENT-3,956,932	c 35	N76-24524 *	US-PATENT-3,996,462	c 33	N77-14335 *	US-PATENT-4,039,900	c 34	N77-30399 *
US-PATENT-3,957,030	c 44	N76-23675 *	US-PATENT-3,996,464	c 35	N77-14406 *	US-PATENT-4,039,347	c 27	N77-30237 *
US-PATENT-3,957,037	c 35	N76-24525 *	US-PATENT-3,996,468	c 35	N77-14408 *	US-PATENT-4,039,754	c 32	N77-30309 *
US-PATENT-3,957,044	c 54	N76-24900 *	US-PATENT-3,996,471	c 52	N77-14737 *	US-PATENT-4,039,925	c 33	N77-30365 *
US-PATENT-3,957,104	c 37	N76-23570 *	US-PATENT-3,996,506	c 33	N77-14333 *	US-PATENT-4,040,041	c 33	N77-31404 *
US-PATENT-3,957,675	c 24	N76-24363 *	US-PATENT-3,996,532	c 32	N77-14292 *	US-PATENT-4,040,750	c 35	N77-31465 *
US-PATENT-3,958,188	c 36	N76-24553 *	US-PATENT-3,997,848	c 33	N77-14334 *	US-PATENT-4,040,867	c 44	N77-31601 *
US-PATENT-3,958,238	c 60	N76-23850 *	US-PATENT-3,999,886	c 05	N77-17029 *	US-PATENT-4,040,940	c 37	N80-14397 *
US-PATENT-3,958,553	c 44	N76-24696 *	US-PATENT-4,049,930	c 33	N78-10375 *	US-PATENT-4,041,233	c 27	N77-30236 *
US-PATENT-3,961,997	c 44	N78-28635 *	US-PATENT-4, 356,157	c 25	N83-33977 *	US-PATENT-4,041,391	c 32	N77-30308 *

US-PATENT-4,041,697	c 37	N78-10467 *	US-PATENT-4,069,028	c 34	N78-17335 *	US-PATENT-4,101,891	c 35	N79-10391 *
US-PATENT-4,041,910	c 37	N77-31497 *	US-PATENT-4,069,212	c 27	N78-17213 *	US-PATENT-4,101,961	c 52	N79-10724 *
US-PATENT-4,042,926	c 32	N77-31350 *	US-PATENT-4,069,478	c 60	N78-17691 *	US-PATENT-4,102,580	c 74	N79-11865 *
US-PATENT-4,043,668	c 35	N84-33766 *	US-PATENT-4,069,661	c 07	N78-18067 *	US-PATENT-4,103,550	c 31	N79-11246 *
US-PATENT-4,043,674	c 36	N77-32478 *	US-PATENT-4,070,574	c 74	N78-18905 *	US-PATENT-4,103,619	c 28	N79-11231 *
US-PATENT-4,044,753	c 44	N77-32582 *	US-PATENT-4,072,532	c 27	N78-19302 *	US-PATENT-4,103,712	c 37	N79-11402 *
US-PATENT-4,044,821	c 44	N77-32581 *	US-PATENT-4,075,057	c 73	N78-19920 *	US-PATENT-4,104,018	c 25	N79-11151 *
US-PATENT-4,045,063	c 37	N77-32499 *	US-PATENT-4,077,231	c 31	N78-25256 *	US-PATENT-4,104,084	c 44	N79-11467 *
US-PATENT-4,045,149	c 07	N77-32148 *	US-PATENT-4,077,678	c 44	N78-24608 *	US-PATENT-4,104,091	c 44	N79-11468 *
US-PATENT-4,045,247	c 35	N77-32454 *	US-PATENT-4,077,788	c 28	N78-24365 *	US-PATENT-4,104,134	c 44	N79-11469 *
US-PATENT-4,045,255	c 26	N77-32279 *	US-PATENT-4,077,788	c 28	N81-14103 *	US-PATENT-4,104,134	c 44	N80-16452 *
US-PATENT-4,045,315	c 44	N77-32580 *	US-PATENT-4,077,813	c 26	N78-24333 *	US-PATENT-4,104,873	c 37	N79-11403 *
US-PATENT-4,045,359	c 25	N77-32255 *	US-PATENT-4,077,818	c 44	N78-24609 *	US-PATENT-4,105,261	c 37	N79-11404 *
US-PATENT-4,045,728	c 35	N77-32455 *	US-PATENT-4,077,921	c 24	N78-24290 *	US-PATENT-4,105,517	c 44	N79-11470 *
US-PATENT-4,045,792	c 60	N77-32731 *	US-PATENT-4,078,110	c 34	N78-25350 *	US-PATENT-4,105,966	c 33	N79-11315 *
US-PATENT-4,045,795	c 32	N77-32342 *	US-PATENT-4,078,175	c 76	N78-24950 *	US-PATENT-4,106,218	c 74	N79-13855 *
US-PATENT-4,046,012	c 35	N77-32456 *	US-PATENT-4,078,290	c 37	N78-24544 *	US-PATENT-4,106,587	c 71	N79-14871 *
US-PATENT-4,046,190	c 34	N77-32413 *	US-PATENT-4,078,378	c 37	N78-24545 *	US-PATENT-4,106,687	c 37	N79-13364 *
US-PATENT-4,046,262	c 54	N77-32721 *	US-PATENT-4,079,268	c 32	N78-24391 *	US-PATENT-4,107,363	c 33	N79-12331 *
US-PATENT-4,046,434	c 37	N77-32500 *	US-PATENT-4,080,901	c 20	N78-24275 *	US-PATENT-4,107,627	c 72	N79-13826 *
US-PATENT-4,046,435	c 37	N77-32501 *	US-PATENT-4,081,250	c 44	N78-31527 *	US-PATENT-4,107,919	c 34	N79-13288 *
US-PATENT-4,046,462	c 44	N77-32583 *	US-PATENT-4,082,001	c 35	N78-24515 *	US-PATENT-4,108,241	c 34	N79-13289 *
US-PATENT-4,046,529	c 54	N77-32722 *	US-PATENT-4,082,569	c 44	N78-25527 *	US-PATENT-4,109,213	c 33	N79-22373 *
US-PATENT-4,046,560	c 26	N77-32280 *	US-PATENT-4,083,097	c 44	N78-25528 *	US-PATENT-4,109,644	c 52	N79-18580 *
US-PATENT-4,046,617	c 76	N77-32919 *	US-PATENT-4,083,181	c 07	N78-25089 *	US-PATENT-4,110,683	c 33	N79-18193 *
US-PATENT-4,046,619	c 27	N77-32308 *	US-PATENT-4,083,380	c 37	N78-25426 *	US-PATENT-4,110,703	c 36	N79-18307 *
US-PATENT-4,047,840	c 37	N78-10468 *	US-PATENT-4,083,520	c 15	N78-25119 *	US-PATENT-4,111,041	c 35	N79-14345 *
US-PATENT-4,051,558	c 52	N78-10686 *	US-PATENT-4,083,765	c 35	N78-25391 *	US-PATENT-4,111,058	c 35	N79-14347 *
US-PATENT-4,051,834	c 44	N78-10554 *	US-PATENT-4,084,124	c 44	N78-25531 *	US-PATENT-4,111,068	c 37	N79-14382 *
US-PATENT-4,051,877	c 35	N78-10428 *	US-PATENT-4,084,132	c 33	N78-25319 *	US-PATENT-4,111,184	c 44	N79-14526 *
US-PATENT-4,052,144	c 25	N78-10224 *	US-PATENT-4,084,612	c 34	N78-25351 *	US-PATENT-4,111,718	c 35	N79-14346 *
US-PATENT-4,052,181	c 71	N78-10837 *	US-PATENT-4,084,825	c 07	N78-25090 *	US-PATENT-4,111,729	c 28	N79-14228 *
US-PATENT-4,052,302	c 25	N78-10225 *	US-PATENT-4,084,985	c 44	N78-25509 *	US-PATENT-4,111,775	c 76	N79-14906 *
US-PATENT-4,052,523	c 24	N78-10214 *	US-PATENT-4,085,004	c 73	N78-28913 *	US-PATENT-4,111,851	c 24	N79-14156 *
US-PATENT-4,052,614	c 35	N78-10429 *	US-PATENT-4,085,241	c 44	N78-25530 *	US-PATENT-4,112,357	c 33	N79-14305 *
US-PATENT-4,052,648	c 33	N78-10376 *	US-PATENT-4,085,332	c 25	N78-25148 *	US-PATENT-4,112,497	c 32	N79-14267 *
US-PATENT-4,052,659	c 33	N78-10377 *	US-PATENT-4,087,902	c 33	N78-27326 *	US-PATENT-4,112,875	c 44	N78-33526 *
US-PATENT-4,052,666	c 43	N78-10529 *	US-PATENT-4,087,962	c 34	N78-27357 *	US-PATENT-4,116,131	c 20	N78-32179 *
US-PATENT-4,052,705	c 60	N78-10709 *	US-PATENT-4,087,975	c 44	N78-32542 *	US-PATENT-4,117,669	c 07	N79-10057 *
US-PATENT-4,053,229	c 74	N78-13874 *	US-PATENT-4,088,018	c 37	N78-27424 *	US-PATENT-4,117,731	c 35	N79-10390 *
US-PATENT-4,053,231	c 35	N78-18391 *	US-PATENT-4,088,094	c 51	N78-27733 *	US-PATENT-4,117,749	c 37	N79-10419 *
US-PATENT-4,053,918	c 44	N78-13526 *	US-PATENT-4,088,270	c 07	N78-27121 *	US-PATENT-4,117,881	c 51	N79-10694 *
US-PATENT-4,055,004	c 09	N78-18083 *	US-PATENT-4,088,291	c 37	N78-27425 *	US-PATENT-4,118,014	c 37	N79-10420 *
US-PATENT-4,055,041	c 07	N78-18066 *	US-PATENT-4,088,312	c 37	N78-27423 *	US-PATENT-4,118,315	c 51	N79-10693 *
US-PATENT-4,055,072	c 35	N78-19465 *	US-PATENT-4,088,408	c 74	N78-27904 *	US-PATENT-4,118,427	c 27	N80-32514 *
US-PATENT-4,055,089	c 35	N78-18390 *	US-PATENT-4,088,532	c 25	N78-27226 *	US-PATENT-4,118,620	c 37	N79-10421 *
US-PATENT-4,055,147	c 35	N78-19466 *	US-PATENT-4,088,806	c 24	N78-27180 *	US-PATENT-4,118,665	c 33	N79-10338 *
US-PATENT-4,055,416	c 26	N78-18182 *	US-PATENT-4,088,926	c 75	N78-27913 *	US-PATENT-4,118,666	c 32	N79-10262 *
US-PATENT-4,055,447	c 26	N78-18183 *	US-PATENT-4,088,951	c 35	N78-28411 *	US-PATENT-4,118,671	c 33	N79-10339 *
US-PATENT-4,055,686	c 37	N78-13436 *	US-PATENT-4,088,954	c 35	N78-32397 *	US-PATENT-4,118,701	c 32	N79-10264 *
US-PATENT-4,055,705	c 34	N78-18355 *	US-PATENT-4,088,965	c 36	N78-27402 *	US-PATENT-4,119,581	c 27	N81-14076 *
US-PATENT-4,055,707	c 44	N78-19599 *	US-PATENT-4,088,999	c 44	N78-28594 *	US-PATENT-4,119,926	c 33	N79-11313 *
US-PATENT-4,055,764	c 35	N78-13400 *	US-PATENT-4,089,004	c 32	N80-29539 *	US-PATENT-4,119,964	c 32	N79-11265 *
US-PATENT-4,055,777	c 33	N78-18308 *	US-PATENT-4,089,209	c 35	N78-27384 *	US-PATENT-4,119,972	c 32	N79-11264 *
US-PATENT-4,055,810	c 36	N78-18410 *	US-PATENT-4,089,705	c 44	N78-27515 *	US-PATENT-4,119,996	c 33	N79-12321 *
US-PATENT-4,055,847	c 33	N78-13320 *	US-PATENT-4,090,213	c 44	N80-29835 *	US-PATENT-4,121,965	c 76	N79-11920 *
US-PATENT-4,061,029	c 35	N78-14364 *	US-PATENT-4,091,166	c 27	N78-31233 *	US-PATENT-4,121,995	c 25	N79-11152 *
US-PATENT-4,061,041	c 71	N78-14867 *	US-PATENT-4,091,329	c 33	N78-32339 *	US-PATENT-4,122,214	c 44	N79-11472 *
US-PATENT-4,061,146	c 52	N78-14773 *	US-PATENT-4,091,464	c 54	N78-31735 *	US-PATENT-4,122,334	c 74	N79-12890 *
US-PATENT-4,061,190	c 43	N78-14452 *	US-PATENT-4,091,464	c 54	N79-24651 *	US-PATENT-4,122,383	c 44	N79-12541 *
US-PATENT-4,061,427	c 36	N78-14380 *	US-PATENT-4,091,465	c 54	N78-31736 *	US-PATENT-4,122,454	c 32	N79-13214 *
US-PATENT-4,061,561	c 25	N78-14104 *	US-PATENT-4,091,613	c 44	N78-32539 *	US-PATENT-4,122,518	c 52	N79-12694 *
US-PATENT-4,061,570	c 54	N78-14784 *	US-PATENT-4,091,665	c 09	N78-31129 *	US-PATENT-4,122,712	c 34	N79-12359 *
US-PATENT-4,061,577	c 74	N78-14889 *	US-PATENT-4,091,798	c 44	N78-31526 *	US-PATENT-4,122,725	c 38	N79-14398 *
US-PATENT-4,061,579	c 24	N78-14096 *	US-PATENT-4,091,800	c 44	N78-31525 *	US-PATENT-4,122,816	c 37	N79-11405 *
US-PATENT-4,061,812	c 24	N78-15180 *	US-PATENT-4,092,188	c 28	N78-31255 *	US-PATENT-4,122,833	c 44	N79-11471 *
US-PATENT-4,061,834	c 27	N78-14164 *	US-PATENT-4,092,274	c 27	N78-31232 *	US-PATENT-4,122,991	c 18	N79-11108 *
US-PATENT-4,061,856	c 27	N78-15276 *	US-PATENT-4,092,466	c 27	N78-32256 *	US-PATENT-4,123,355	c 45	N79-12584 *
US-PATENT-4,061,955	c 44	N78-14625 *	US-PATENT-4,092,466	c 27	N80-10358 *	US-PATENT-4,124,180	c 05	N79-12061 *
US-PATENT-4,061,974	c 32	N78-15323 *	US-PATENT-4,092,606	c 33	N78-32338 *	US-PATENT-4,124,330	c 07	N79-14095 *
US-PATENT-4,062,227	c 39	N78-15512 *	US-PATENT-4,092,617	c 33	N78-32340 *	US-PATENT-4,124,732	c 27	N79-12221 *
US-PATENT-4,062,245	c 37	N78-16369 *	US-PATENT-4,092,633	c 54	N78-32720 *	US-PATENT-4,128,814	c 36	N79-14362 *
US-PATENT-4,062,347	c 44	N78-15560 *	US-PATENT-4,092,648	c 32	N78-31321 *	US-PATENT-4,129,357	c 74	N79-14891 *
US-PATENT-4,062,650	c 25	N78-15210 *	US-PATENT-4,092,712	c 33	N78-32341 *	US-PATENT-4,130,032	c 37	N79-14383 *
US-PATENT-4,062,996	c 74	N78-15879 *	US-PATENT-4,092,874	c 37	N78-31426 *	US-PATENT-4,130,112	c 52	N79-14751 *
US-PATENT-4,063,088	c 74	N78-15880 *	US-PATENT-4,093,156	c 05	N78-32086 *	US-PATENT-4,130,471	c 25	N79-14169 *
US-PATENT-4,063,092	c 35	N78-15461 *	US-PATENT-4,093,354	c 73	N78-32848 *	US-PATENT-4,130,490	c 33	N79-15245 *
US-PATENT-4,063,282	c 39	N78-16387 *	US-PATENT-4,093,382	c 38	N78-32447 *	US-PATENT-4,130,795	c 35	N79-14349 *
US-PATENT-4,063,814	c 74	N78-17866 *	US-PATENT-4,093,771	c 27	N78-32260 *	US-PATENT-4,131,336	c 44	N79-14529 *
US-PATENT-4,063,981	c 24	N78-17149 *	US-PATENT-4,093,917	c 35	N78-32396 *	US-PATENT-4,131,455	c 27	N79-14213 *
US-PATENT-4,064,566	c 27	N78-17215 *	US-PATENT-4,094,073	c 35	N78-32395 *	US-PATENT-4,131,486	c 44	N79-14528 *
US-PATENT-4,064,642	c 54	N78-17675 *	US-PATENT-4,094,758	c 26	N78-32229 *	US-PATENT-4,132,068	c 07	N79-14097 *
US-PATENT-4,064,692	c 37	N78-17384 *	US-PATENT-4,094,775	c 52	N80-14687 *	US-PATENT-4,132,069	c 07	N79-14096 *
US-PATENT-4,065,053	c 44	N78-17460 *	US-PATENT-4,094,862	c 27	N78-32261 *	US-PATENT-4,132,130	c 44	N79-14527 *
US-PATENT-4,065,202	c 35	N78-17357 *	US-PATENT-4,094,943	c 27	N78-32262 *	US-PATENT-4,132,375	c 08	N79-14108 *
US-PATENT-4,065,340	c 24	N78-17150 *	US-PATENT-4,095,593	c 54	N78-32721 *	US-PATENT-4,132,594	c 52	N79-14749 *
US-PATENT-4,065,345	c 27	N78-17205 *	US-PATENT-4,096,315	c 74	N78-32854 *	US-PATENT-4,132,599	c 52	N79-14750 *
US-PATENT-4,066,039	c 37	N78-17383 *	US-PATENT-4,097,194	c 07	N78-33101 *	US-PATENT-4,132,829	c 27	N79-14214 *
US-PATENT-4,067,015	c 17	N78-17140 *	US-PATENT-4,098,142	c 37	N79-10422 *	US-PATENT-4,132,940	c 35	N79-14348 *
US-PATENT-4,067,043	c 74	N78-17865 *	US-PATENT-4,099,799	c 37	N79-10418 *	US-PATENT-4,132,989	c 32	N79-14268 *
US-PATENT-4,067,653	c 74	N78-17867 *	US-PATENT-4,100,331	c 44	N79-10513 *	US-PATENT-4,133,697	c 44	N79-17314 *
US-PATENT-4,067,742	c 27	N78-17206 *	US-PATENT-4,100,487	c 33	N79-10337 *	US-PATENT-4,133,697	c 44	N80-14474 *
US-PATENT-4,068,469	c 07	N78-17055 *	US-PATENT-4,100,531	c 32	N79-10263 *	US-PATENT-4,133,941	c 44	N79-17313 *
US-PATENT-4,068,470	c 07	N78-17056 *	US-PATENT-4,101,195	c 89	N79-10969 *	US-PATENT-4,133,941	c 25	N82-21268 *
US-PATENT-4,068,495	c 31	N78-17237 *	US-PATENT-4,101,644	c 25	N79-10162 *	US-PATENT-4,134,447	c 31	N79-17029 *
US-PATENT-4,068,763	c 54	N78-17676 *	US-PATENT-4,101,780	c 35	N79-10389 *	US-PATENT-4,134,683	c 43	N79-17288 *

US-PATENT-4,134,744	c 35	N79-17192 *	US-PATENT-4,170,776	c 46	N80-14603 *	US-PATENT-4,210,278	c 31	N80-32583 *
US-PATENT-4,134,786	c 85	N79-17747 *	US-PATENT-4,170,987	c 52	N81-27783 *	US-PATENT-4,210,401	c 35	N80-28687 *
US-PATENT-4,135,019	c 24	N79-16915 *	US-PATENT-4,171,615	c 20	N80-14188 *	US-PATENT-4,210,474	c 28	N80-28536 *
US-PATENT-4,135,127	c 33	N79-17133 *	US-PATENT-4,171,645	c 35	N80-14371 *	US-PATENT-4,210,622	c 44	N80-24741 *
US-PATENT-4,135,290	c 44	N79-18444 *	US-PATENT-4,172,228	c 33	N80-14332 *	US-PATENT-4,211,354	c 24	N81-17170 *
US-PATENT-4,135,367	c 44	N79-18443 *	US-PATENT-4,172,786	c 45	N80-14579 *	US-PATENT-4,211,354	c 24	N81-26179 *
US-PATENT-4,135,817	c 35	N79-18296 *	US-PATENT-4,172,883	c 26	N80-14229 *	US-PATENT-4,212,199	c 02	N80-28300 *
US-PATENT-4,135,851	c 37	N79-18318 *	US-PATENT-4,173,001	c 36	N80-14384 *	US-PATENT-4,212,297	c 51	N81-14605 *
US-PATENT-4,135,851	c 37	N80-26658 *	US-PATENT-4,173,324	c 37	N80-14398 *	US-PATENT-4,212,477	c 37	N80-28711 *
US-PATENT-4,135,851	c 37	N82-19540 *	US-PATENT-4,173,397	c 44	N80-14473 *	US-PATENT-4,212,477	c 37	N81-26447 *
US-PATENT-4,136,211	c 24	N79-17916 *	US-PATENT-4,173,820	c 44	N80-14474 *	US-PATENT-4,212,690	c 26	N80-28492 *
US-PATENT-4,137,010	c 05	N79-17847 *	US-PATENT-4,175,249	c 44	N80-14472 *	US-PATENT-4,213,051	c 35	N80-28686 *
US-PATENT-4,137,365	c 27	N79-18052 *	US-PATENT-4,176,007	c 51	N80-16714 *	US-PATENT-4,213,064	c 60	N81-15706 *
US-PATENT-4,139,291	c 74	N79-20856 *	US-PATENT-4,176,360	c 18	N80-14183 *	US-PATENT-4,213,131	c 32	N80-28578 *
US-PATENT-4,139,806	c 71	N79-20827 *	US-PATENT-4,176,662	c 52	N80-16725 *	US-PATENT-4,213,684	c 74	N81-17886 *
US-PATENT-4,139,839	c 60	N79-20751 *	US-PATENT-4,176,950	c 36	N80-16321 *	US-PATENT-4,214,226	c 31	N80-32584 *
US-PATENT-4,139,862	c 32	N79-20297 *	US-PATENT-4,177,325	c 44	N80-16452 *	US-PATENT-4,214,703	c 07	N80-32392 *
US-PATENT-4,140,972	c 32	N79-20296 *	US-PATENT-4,177,333	c 25	N80-16116 *	US-PATENT-4,214,902	c 26	N80-32484 *
US-PATENT-4,141,219	c 34	N79-20335 *	US-PATENT-4,178,100	c 35	N80-18359 *	US-PATENT-4,214,905	c 24	N80-33482 *
US-PATENT-4,141,224	c 34	N79-20336 *	US-PATENT-4,180,648	c 27	N80-16158 *	US-PATENT-4,215,273	c 74	N80-33210 *
US-PATENT-4,141,259	c 37	N79-20377 *	US-PATENT-4,181,589	c 51	N80-16715 *	US-PATENT-4,215,327	c 32	N80-32605 *
US-PATENT-4,142,101	c 74	N79-20857 *	US-PATENT-4,182,158	c 35	N80-18358 *	US-PATENT-4,215,345	c 04	N80-32359 *
US-PATENT-4,142,119	c 33	N79-20314 *	US-PATENT-4,183,217	c 20	N80-18097 *	US-PATENT-4,215,548	c 37	N80-31790 *
US-PATENT-4,143,314	c 20	N79-20179 *	US-PATENT-4,184,072	c 44	N80-18552 *	US-PATENT-4,215,590	c 37	N80-32717 *
US-PATENT-4,145,058	c 37	N79-22475 *	US-PATENT-4,184,111	c 44	N80-18551 *	US-PATENT-4,215,592	c 37	N80-32716 *
US-PATENT-4,145,255	c 25	N79-22235 *	US-PATENT-4,184,149	c 06	N80-18036 *	US-PATENT-4,216,186	c 76	N80-32244 *
US-PATENT-4,145,524	c 27	N79-22300 *	US-PATENT-4,184,155	c 43	N80-18498 *	US-PATENT-4,216,542	c 33	N81-15192 *
US-PATENT-4,145,933	c 39	N79-22537 *	US-PATENT-4,184,327	c 07	N80-18039 *	US-PATENT-4,217,165	c 76	N80-32245 *
US-PATENT-4,146,180	c 37	N79-22474 *	US-PATENT-4,184,368	c 48	N80-18667 *	US-PATENT-4,217,633	c 44	N81-12542 *
US-PATENT-4,146,367	c 25	N81-33246 *	US-PATENT-4,184,472	c 76	N80-18951 *	US-PATENT-4,218,280	c 27	N80-32516 *
US-PATENT-4,146,409	c 26	N79-22271 *	US-PATENT-4,184,491	c 52	N80-18690 *	US-PATENT-4,218,633	c 72	N80-33186 *
US-PATENT-4,148,031	c 32	N79-24210 *	US-PATENT-4,184,609	c 37	N80-18393 *	US-PATENT-4,218,650	c 33	N80-32650 *
US-PATENT-4,148,295	c 44	N79-23481 *	US-PATENT-4,184,903	c 44	N80-18550 *	US-PATENT-4,218,682	c 32	N80-32604 *
US-PATENT-4,148,375	c 46	N79-22679 *	US-PATENT-4,185,164	c 33	N80-18286 *	US-PATENT-4,218,685	c 32	N81-14187 *
US-PATENT-4,148,452	c 08	N79-23097 *	US-PATENT-4,185,493	c 35	N80-18357 *	US-PATENT-4,218,892	c 35	N81-14287 *
US-PATENT-4,148,962	c 24	N79-24062 *	US-PATENT-4,186,347	c 32	N80-18253 *	US-PATENT-4,218,921	c 71	N81-15767 *
US-PATENT-4,149,034	c 71	N79-23753 *	US-PATENT-4,186,749	c 52	N80-18691 *	US-PATENT-4,218,941	c 37	N81-14319 *
US-PATENT-4,149,233	c 33	N79-24257 *	US-PATENT-4,187,394	c 32	N80-18252 *	US-PATENT-4,219,027	c 52	N81-14612 *
US-PATENT-4,149,278	c 54	N79-24652 *	US-PATENT-4,187,416	c 33	N80-18285 *	US-PATENT-4,219,084	c 31	N81-14137 *
US-PATENT-4,149,423	c 32	N79-24203 *	US-PATENT-4,187,470	c 36	N80-18372 *	US-PATENT-4,219,107	c 37	N81-15364 *
US-PATENT-4,149,521	c 44	N79-24433 *	US-PATENT-4,187,506	c 33	N80-18287 *	US-PATENT-4,219,171	c 37	N81-14320 *
US-PATENT-4,149,665	c 44	N79-24431 *	US-PATENT-4,188,368	c 31	N80-18231 *	US-PATENT-4,219,203	c 37	N81-15363 *
US-PATENT-4,149,817	c 44	N79-24432 *	US-PATENT-4,188,823	c 02	N80-20224 *	US-PATENT-4,219,926	c 44	N81-14389 *
US-PATENT-4,149,938	c 25	N79-24073 *	US-PATENT-4,189,234	c 74	N80-21138 *	US-PATENT-4,220,171	c 07	N81-14999 *
US-PATENT-4,150,425	c 33	N79-24254 *	US-PATENT-4,189,675	c 32	N80-20448 *	US-PATENT-4,221,005	c 32	N81-15179 *
US-PATENT-4,151,086	c 34	N79-24285 *	US-PATENT-4,189,914	c 07	N81-29129 *	US-PATENT-4,222,098	c 33	N81-14220 *
US-PATENT-4,151,456	c 33	N79-23345 *	US-PATENT-4,190,060	c 52	N81-29763 *	US-PATENT-4,225,102	c 02	N81-14968 *
US-PATENT-4,151,612	c 54	N79-24651 *	US-PATENT-4,190,626	c 24	N81-29163 *	US-PATENT-4,225,372	c 27	N81-14077 *
US-PATENT-4,151,800	c 24	N79-25142 *	US-PATENT-4,191,159	c 37	N80-29703 *	US-PATENT-4,226,475	c 43	N81-26509 *
US-PATENT-4,152,194	c 76	N79-23798 *	US-PATENT-4,191,505	c 44	N80-21828 *	US-PATENT-4,227,096	c 33	N81-17348 *
US-PATENT-4,153,134	c 46	N79-23555 *	US-PATENT-4,191,893	c 44	N80-29834 *	US-PATENT-4,228,422	c 33	N81-14221 *
US-PATENT-4,153,476	c 44	N79-25482 *	US-PATENT-4,192,290	c 44	N80-20810 *	US-PATENT-4,228,656	c 37	N81-14318 *
US-PATENT-4,153,818	c 32	N79-23310 *	US-PATENT-4,192,910	c 33	N80-20487 *	US-PATENT-4,229,182	c 28	N81-15119 *
US-PATENT-4,154,084	c 43	N79-25443 *	US-PATENT-4,192,910	c 44	N81-29524 *	US-PATENT-4,229,196	c 28	N81-14103 *
US-PATENT-4,154,228	c 52	N79-27836 *	US-PATENT-4,192,994	c 74	N80-21140 *	US-PATENT-4,229,473	c 24	N81-14000 *
US-PATENT-4,154,230	c 52	N79-26771 *	US-PATENT-4,193,388	c 44	N80-20808 *	US-PATENT-4,229,473	c 24	N81-33235 *
US-PATENT-4,154,256	c 05	N79-24976 *	US-PATENT-4,193,435	c 37	N80-23653 *	US-PATENT-4,230,717	c 52	N81-14613 *
US-PATENT-4,154,501	c 33	N81-29342 *	US-PATENT-4,193,570	c 35	N80-21719 *	US-PATENT-4,233,258	c 27	N81-14078 *
US-PATENT-4,154,912	c 44	N79-25481 *	US-PATENT-4,193,693	c 35	N80-20563 *	US-PATENT-4,233,606	c 32	N81-14185 *
US-PATENT-4,155,475	c 24	N79-25143 *	US-PATENT-4,193,827	c 28	N80-20402 *	US-PATENT-4,234,258	c 25	N81-14015 *
US-PATENT-4,156,309	c 44	N79-26475 *	US-PATENT-4,193,827	c 28	N81-14103 *	US-PATENT-4,234,715	c 25	N81-14016 *
US-PATENT-4,156,448	c 35	N79-26372 *	US-PATENT-4,194,115	c 25	N80-20334 *	US-PATENT-4,234,971	c 32	N81-14186 *
US-PATENT-4,156,752	c 15	N79-26100 *	US-PATENT-4,195,244	c 35	N80-20559 *	US-PATENT-4,235,060	c 37	N81-14317 *
US-PATENT-4,156,971	c 43	N79-26439 *	US-PATENT-4,195,279	c 35	N80-20560 *	US-PATENT-4,236,383	c 44	N81-17518 *
US-PATENT-4,157,655	c 43	N80-14423 *	US-PATENT-4,195,512	c 43	N80-23711 *	US-PATENT-4,236,684	c 08	N81-19130 *
US-PATENT-4,157,718	c 52	N80-14684 *	US-PATENT-4,195,666	c 37	N80-23654 *	US-PATENT-4,237,662	c 31	N81-27323 *
US-PATENT-4,158,583	c 28	N79-28342 *	US-PATENT-4,196,129	c 27	N80-32515 *	US-PATENT-4,238,911	c 31	N81-27324 *
US-PATENT-4,158,742	c 12	N79-26075 *	US-PATENT-4,196,619	c 46	N80-24906 *	US-PATENT-4,239,057	c 37	N81-17433 *
US-PATENT-4,158,775	c 72	N80-14877 *	US-PATENT-4,196,840	c 37	N80-23655 *	US-PATENT-4,240,256	c 37	N81-17432 *
US-PATENT-4,158,895	c 52	N79-26772 *	US-PATENT-4,197,530	c 33	N80-23559 *	US-PATENT-4,240,290	c 06	N81-17057 *
US-PATENT-4,159,262	c 27	N79-28307 *	US-PATENT-4,198,209	c 28	N80-23471 *	US-PATENT-4,240,601	c 43	N81-17499 *
US-PATENT-4,159,366	c 44	N79-26474 *	US-PATENT-4,198,232	c 26	N80-23419 *	US-PATENT-4,241,308	c 33	N81-17349 *
US-PATENT-4,159,634	c 37	N79-28550 *	US-PATENT-4,198,788	c 74	N80-24149 *	US-PATENT-4,241,312	c 35	N81-19427 *
US-PATENT-4,160,254	c 33	N79-28416 *	US-PATENT-4,198,792	c 25	N80-23383 *	US-PATENT-4,242,498	c 27	N81-17259 *
US-PATENT-4,160,508	c 37	N79-28551 *	US-PATENT-4,198,988	c 52	N80-23969 *	US-PATENT-4,242,553	c 33	N81-19389 *
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US-PATENT-4,161,731	c 31	N79-28370 *	US-PATENT-4,199,764	c 32	N80-23524 *	US-PATENT-4,243,327	c 74	N81-17887 *
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US-PATENT-4,388,171	c 23	N84-16255 *	US-PATENT-4,420,518	c 27	N84-14323 *	US-PATENT-4,459,562	c 33	N84-27974 *
US-PATENT-4,388,346	c 33	N84-16456 *	US-PATENT-4,420,836	c 36	N84-14509 *	US-PATENT-4,462,871	c 76	N84-35112 * #
US-PATENT-4,388,502	c 05	N83-27975 *	US-PATENT-4,420,977	c 71	N84-23233 *	US-PATENT-4,463,357	c 46	N85-21846 *
US-PATENT-4,388,542	c 44	N83-28573 *	US-PATENT-4,421,109	c 54	N84-16803 *	US-PATENT-4,463,465	c 03	N84-33394 *
US-PATENT-4,388,585	c 33	N83-28319 *	US-PATENT-4,421,371	c 33	N84-14423 *	US-PATENT-4,463,606	c 71	N85-22105 *
US-PATENT-4,388,585	c 33	N84-33660 *	US-PATENT-4,421,700	c 24	N84-16262 *	US-PATENT-4,464,710	c 33	N84-33663 *
US-PATENT-4,388,965	c 34	N83-28356 *	US-PATENT-4,421,820	c 27	N84-14322 *	US-PATENT-4,466,242	c 20	N85-21256 *
US-PATENT-4,389,504	c 27	N83-28240 *	US-PATENT-4,422,012	c 33	N84-16452 *	US-PATENT-4,466,667	c 35	N84-33768 *
US-PATENT-4,389,504	c 27	N85-21349 *	US-PATENT-4,422,609	c 37	N84-16560 *	US-PATENT-4,469,552	c 76	N84-35113 *
US-PATENT-4,389,849	c 44	N83-28574 *	US-PATENT-4,423,605	c 34	N84-22903 *	US-PATENT-4,469,942	c 35	N84-33767 *
US-PATENT-4,389,904	c 35	N83-29650 *	US-PATENT-4,424,592	c 36	N84-16542 *	US-PATENT-4,469,998	c 33	N84-33661 *
US-PATENT-4,391,129	c 34	N83-31993 *	US-PATENT-4,425,376	c 71	N84-16940 *	US-PATENT-4,470,293	c 37	N84-33807 *
US-PATENT-4,391,423	c 18	N83-29303 *	US-PATENT-4,425,543	c 33	N84-16454 *	US-PATENT-4,470,403	c 44	N84-34792 *
US-PATENT-4,391,514	c 36	N83-34304 *	US-PATENT-4,425,785	c 15	N84-16231 *	US-PATENT-4,471,357	c 32	N84-34651 *
US-PATENT-4,391,518	c 36	N83-29680 *	US-PATENT-4,425,808	c 35	N84-28015 *	US-PATENT-4,472,473	c 18	N84-33450 *
US-PATENT-4,391,609	c 25	N83-31743 *	US-PATENT-4,425,808	c 35	N85-21598 *	US-PATENT-4,472,716	c 35	N84-33769 *
US-PATENT-4,392,356	c 34	N83-29625 *	US-PATENT-4,425,854	c 25	N84-16276 *	US-PATENT-4,472,728	c 35	N84-33765 *
US-PATENT-4,392,749	c 35	N83-29651 *	US-PATENT-4,426,614	c 33	N84-16455 *	US-PATENT-4,473,259	c 37	N85-20337 *
US-PATENT-4,392,874	c 35	N83-29652 *	US-PATENT-4,426,678	c 33	N84-16453 *	US-PATENT-4,473,674	c 24	N84-34571 *
US-PATENT-4,392,920	c 27	N83-29388 *	US-PATENT-4,426,874	c 35	N84-28019 *	US-PATENT-4,473,792	c 33	N84-33660 *
US-PATENT-4,393,039	c 25	N83-29324 *	US-PATENT-4,428,122	c 35	N84-16523 *	US-PATENT-4,474,062	c 06	N84-34443 *
US-PATENT-4,393,706	c 71	N83-32516 *	US-PATENT-4,428,226	c 07	N84-22559 *	US-PATENT-4,474,180	c 52	N84-34913 *
US-PATENT-4,393,708	c 71	N83-32515 *	US-PATENT-4,428,675	c 35	N84-22929 *	US-PATENT-4,474,471	c 35	N84-34705 *
US-PATENT-4,393,716	c 39	N83-32081 *	US-PATENT-4,428,703	c 37	N84-16561 *	US-PATENT-4,474,975	c 25	N85-21280 *
US-PATENT-4,393,777	c 37	N84-12491 *	US-PATENT-4,429,537	c 37	N84-22958 *	US-PATENT-4,475,063	c 33	N85-21491 *
US-PATENT-4,394,610	c 33	N83-31953 *	US-PATENT-4,430,360	c 37	N84-22957 *	US-PATENT-4,475,385	c 09	N84-34448 *
US-PATENT-4,394,726	c 60	N83-32342 *	US-PATENT-4,430,673	c 74	N84-23247 *	US-PATENT-4,475,527	c 37	N85-21650 *
US-PATENT-4,394,819	c 35	N83-32026 *	US-PATENT-4,431,306	c 35	N84-22931 *	US-PATENT-4,475,921	c 71	N85-22104 *
US-PATENT-4,395,123	c 74	N83-32577 *	US-PATENT-4,431,333	c 18	N84-22605 *	US-PATENT-4,478,879	c 44	N85-20530 *
US-PATENT-4,395,503	c 27	N83-34043 *	US-PATENT-4,431,761	c 27	N84-22747 *	US-PATENT-4,479,053	c 74	N85-22139 *
US-PATENT-4,395,511	c 27	N84-14324 *	US-PATENT-4,431,792	c 27	N84-22746 *	US-PATENT-4,479,386	c 27	N85-20126 *
US-PATENT-4,395,540	c 27	N84-22746 *	US-PATENT-4,432,853	c 52	N84-23095 *	US-PATENT-4,479,560	c 35	N85-20294 *
US-PATENT-4,395,540	c 27	N85-20123 *	US-PATENT-4,433,115	c 27	N84-22745 *	US-PATENT-4,481,570	c 60	N85-21992 *
US-PATENT-4,395,557	c 27	N83-31854 *	US-PATENT-4,433,276	c 33	N84-22885 *	US-PATENT-4,482,778	c 44	N85-21768 *
US-PATENT-4,395,557	c 27	N84-22745 *	US-PATENT-4,433,439	c 54	N84-23113 *	US-PATENT-4,482,779	c 33	N85-21492 *
US-PATENT-4,395,557	c 27	N85-21347 *	US-PATENT-4,433,544	c 44	N84-23018 *	US-PATENT-4,483,512	c 37	N85-20338 *
US-PATENT-4,395,656	c 33	N83-31952 *	US-PATENT-4,433,672	c 44	N84-28203 *	US-PATENT-4,483,639	c 37	N85-21649 *
US-PATENT-4,396,918	c 04	N84-27713 *	US-PATENT-4,434,106	c 27	N84-22744 *	US-PATENT-4,483,817	c 25	N85-21279 *
US-PATENT-4,397,716	c 44	N83-34449 *	US-PATENT-4,434,189	c 36	N84-22944 *	US-PATENT-4,485,151	c 24	N85-21266 *
US-PATENT-4,398,021	c 27	N83-34041 *	US-PATENT-4,434,490	c 36	N84-22943 *	US-PATENT-4,485,151	c 24	N85-35233 *
US-PATENT-4,398,021	c 27	N85-20124 *	US-PATENT-4,434,659	c 35	N84-22928 *	US-PATENT-4,485,670	c 34	N85-21568 *
US-PATENT-4,398,129	c 33	N83-34189 *	US-PATENT-4,435,642	c 35	N84-28016 *	US-PATENT-4,485,671	c 35	N85-20295 *
US-PATENT-4,398,412	c 35	N84-28018 *	US-PATENT-4,435,781	c 60	N84-28491 *	US-PATENT-4,485,992	c 08	N85-19985 *
US-PATENT-4,398,667	c 71	N84-14873 *	US-PATENT-4,437,069	c 33	N84-22887 *	US-PATENT-4,488,155	c 33	N85-21493 *
US-PATENT-4,398,925	c 71	N83-35781 *	US-PATENT-4,437,923	c 35	N84-22930 *	US-PATENT-4,488,335	c 27	N85-20125 *
US-PATENT-4,399,415	c 36	N83-35350 *	US-PATENT-4,437,961	c 33	N84-22884 *	US-PATENT-4,488,663	c 35	N85-21595 *
US-PATENT-4,399,515	c 35	N84-14491 *	US-PATENT-4,437,962	c 24	N84-22695 *	US-PATENT-4,489,027	c 27	N85-20124 *
US-PATENT-4,400,191	c 31	N83-35176 *	US-PATENT-4,437,962	c 24	N85-21267 *	US-PATENT-4,489,239	c 36	N85-21631 *
US-PATENT-4,400,642	c 76	N83-34796 *	US-PATENT-4,439,301	c 44	N84-23019 *	US-PATENT-4,489,243	c 44	N85-21769 *
US-PATENT-4,400,657	c 33	N83-34190 *	US-PATENT-4,439,465	c 26	N84-22734 *	US-PATENT-4,489,264	c 33	N85-22877 *
US-PATENT-4,401,505	c 76	N83-35888 *	US-PATENT-4,439,718	c 33	N84-22886 *	US-PATENT-4,490,117	c 09	N85-19990 *
US-PATENT-4,401,934	c 33	N83-35227 *	US-PATENT-4,439,766	c 32	N84-22820 *	US-PATENT-4,490,229	c 31	N85-20153 *
US-PATENT-4,401,953	c 33	N83-34191 *	US-PATENT-4,439,968	c 16	N84-22601 *	US-PATENT-4,491,427	c 37	N85-21651 *
US-PATENT-4,402,221	c 71	N83-36846 *	US-PATENT-4,442,716	c 35	N84-22934 *	US-PATENT-4,493,021	c 32	N85-21428 *
US-PATENT-4,402,358	c 34	N83-35307 *	US-PATENT-4,443,321	c 25	N84-22709 *	US-PATENT-4,493,211	c 09	N85-21178 *
US-PATENT-4,402,447	c 35	N83-35338 *	US-PATENT-4,443,701	c 74	N84-28590 *	US-PATENT-4,493,553	c 36	N85-21639 *
US-PATENT-4,402,992	c 31	N83-35177 *	US-PATENT-4,443,724	c 35	N84-28017 *	US-PATENT-4,495,044	c 24	N85-21267 *
US-PATENT-4,404,469	c 74	N84-11920 *	US-PATENT-4,444,368	c 05	N84-22551 *	US-PATENT-4,495,339	c 25	N85-30039 *
US-PATENT-4,404,793	c 07	N83-36029 *	US-PATENT-4,444,464	c 74	N84-23248 *	US-PATENT-4,495,520	c 32	N85-21427 *
US-PATENT-4,405,184	c 37	N84-12492 *	US-PATENT-4,444,972	c 27	N84-22750 *	US-PATENT-4,496,122	c 05	N85-21147 *
US-PATENT-4,405,197	c 74	N84-11921 *	US-PATENT-4,444,979	c 27	N84-22749 *	US-PATENT-4,496,701	c 27	N85-21347 *
US-PATENT-4,406,256	c 37	N83-36483 *	US-PATENT-4,445,118	c 04	N84-22546 *	US-PATENT-4,497,540	c 74	N85-23396 *
US-PATENT-4,406,797	c 25	N83-36118 *	US-PATENT-4,445,378	c 35	N84-22933 *	US-PATENT-4,497,935	c 27	N85-21349 *
US-PATENT-4,406,989	c 33	N83-36356 *	US-PATENT-4,446,199	c 26	N84-33555 *	US-PATENT-4,497,939	c 27	N85-21351 *
US-PATENT-4,407,001	c 33	N83-36355 *	US-PATENT-4,446,396	c 35	N84-22932 *	US-PATENT-4,497,940	c 27	N85-21352 *
US-PATENT-4,407,165	c 37	N83-36482 *	US-PATENT-4,446,459	c 60	N84-28492 *	US-PATENT-4,497,948	c 27	N85-21350 *
US-PATENT-4,407,468	c 01	N83-35992 *	US-PATENT-4,446,556	c 36	N84-28065 *	US-PATENT-4,498,231	c 35	N85-21598 *
US-PATENT-4,407,563	c 74	N83-36898 *	US-PATENT-4,446,757	c 37	N84-28084 *	US-PATENT-4,498,333	c 35	N85-21597 *
US-PATENT-4,407,589	c 33	N83-36357 *	US-PATENT-4,447,251	c 71	N84-28568 *	US-PATENT-4,499,260	c 27	N85-21348 *
US-PATENT-4,407,686	c 35	N84-12443 *	US-PATENT-4,447,943	c 52	N84-28389 *	US-PATENT-4,499,424	c 35	N85-21596 *
US-PATENT-4,408,597	c 52	N84-11744 *	US-PATENT-4,448,408	c 37	N84-28083 *	US-PATENT-4,499,470	c 43	N85-21723 *
US-PATENT-4,408,658	c 27	N83-36220 *	US-PATENT-4,449,370	c 37	N84-33808 *	US-PATENT-4,500,265	c 31	N85-21404 *
US-PATENT-4,410,189	c 37	N84-11497 *	US-PATENT-4,449,400	c 47	N84-28292 *	US-PATENT-4,500,492	c 37	N85-21652 *
US-PATENT-4,410,682	c 24	N84-11213 *	US-PATENT-4,449,514	c 44	N84-28204 *	US-PATENT-4,503,436	c 32	N85-29118 *
US-PATENT-4,411,380	c 24	N84-11214 *	US-PATENT-4,449,894	c 37	N84-28081 *	US-PATENT-4,505,998	c 33	N85-29144 *
US-PATENT-4,411,597	c 07	N84-22560 *	US-PATENT-4,450,268	c 27	N84-27884 *	US-PATENT-4,506,183	c 34	N85-29179 *
US-PATENT-4,411,660	c 54	N84-11758 *	US-PATENT-4,450,447	c 32	N84-27951 *	US-PATENT-4,507,928	c 31	N85-29082 *
US-PATENT-4,412,664	c 02	N84-11136 *	US-PATENT-4,451,017	c 18	N84-27787 *	US-PATENT-4,508,296	c 18	N85-29991 *
US-PATENT-4,413,522	c 35	N84-12445 *	US-PATENT-4,451,496	c 26	N84-27855 *	US-PATENT-4,509,048	c 32	N85-34327 *
US-PATENT-4,413,784	c 34	N84-12406 *	US-PATENT-4,452,088	c 24	N84-27829 *	US-PATENT-4,509,130	c 36	N85-29284 *
US-PATENT-4,414,080	c 25	N84-12262 *	US-PATENT-4,452,412	c 16	N84-27784 *	US-PATENT-4,509,132	c 33	N85-34333 *
US-PATENT-4,414,509	c 35	N84-12444 *	US-PATENT-4,453,163	c 06	N84-27733 *	US-PATENT-4,509,548	c 37	N85-34403 *
US-PATENT-4,414,816	c 07	N84-24577 *	US-PATENT-4,454,611	c 54	N84-28484 *	US-PATENT-4,510,277	c 27	N85-34282 *
US-PATENT-4,415,133	c 05	N84-12154 *	US-PATENT-4,454,649	c 44	N84-28205 *	US-PATENT-4,510,296	c 23	N85-28973 *
US-PATENT-4,415,311	c 37	N84-12493 *	US-PATENT-4,454,753	c 09	N84-27749 *	US-PATENT-4,510,476	c 33	N85-29146 *
US-PATENT-4,415,450	c 45	N84-12654 *	US-PATENT-4,455,418	c 27	N84-27885 *	US-PATENT-4,511,362	c 25	N85-35253 *
US-PATENT-4,416,111	c 07	N84-33410 *	US-PATENT-4,455,418	c 25	N85-28982 *	US-PATENT-4,511,838	c 76	N85-30923 *
US-PATENT-4,416,266	c 52	N84-28388 *	US-PATENT-4,455,532	c 72	N84-28575 *	US-PATENT-4,512,332	c 44	N85-30474 *
US-PATENT-4,417,175	c 70	N84-28565 *	US-PATENT-4,455,680	c 32	N84-27952 *	US-PATENT-4,512,661	c 35	N85-30282 *
US-PATENT-4,417,190	c 33	N84-14424 *	US-PATENT-4,456,208	c 27	N84-27886 *	US-PATENT-4,512,678	c 37	N85-30334 *
US-PATENT-4,417,215	c 33	N84-14421 *	US-PATENT-4,456,708	c 51	N84-28361 *	US-PATENT-4,512,699	c 37	N85-29285 *

US-PATENT-4,512,846	c 76	N85-29800 *	US-PATENT-4,557,149	c 35	N86-19581 *	US-PATENT-4,631,538	c 17	N87-16863 *
US-PATENT-4,513,317	c 32	N85-29117 *	US-PATENT-4,557,444	c 05	N86-19310 *	US-PATENT-4,632,548	c 36	N87-17026 *
US-PATENT-4,513,423	c 36	N85-30305 *	US-PATENT-4,558,585	c 71	N86-21276 *	US-PATENT-4,633,060	c 74	N87-17493 *
US-PATENT-4,513,570	c 52	N85-30618 *	US-PATENT-4,558,967	c 37	N86-19605 *	US-PATENT-4,633,060	c 74	N87-25843 *
US-PATENT-4,513,810	c 35	N85-29214 *	US-PATENT-4,560,577	c 27	N86-19458 *	US-PATENT-4,634,191	c 37	N87-17038 *
US-PATENT-4,514,137	c 37	N85-29282 *	US-PATENT-4,560,742	c 27	N86-19457 *	US-PATENT-4,634,759	c 27	N87-16909 *
US-PATENT-4,514,143	c 05	N85-29947 *	US-PATENT-4,561,784	c 25	N86-19413 *	US-PATENT-4,634,759	c 23	N88-24692 *
US-PATENT-4,514,178	c 35	N85-29212 *	US-PATENT-4,562,583	c 74	N86-20124 *	US-PATENT-4,635,663	c 37	N87-17035 *
US-PATENT-4,514,557	c 25	N85-28982 *	US-PATENT-4,564,787	c 33	N86-21742 *	US-PATENT-4,635,773	c 37	N87-17037 *
US-PATENT-4,515,207	c 34	N85-29180 *	US-PATENT-4,565,557	c 31	N86-21718 *	US-PATENT-4,637,181	c 31	N87-16918 *
US-PATENT-4,515,751	c 35	N85-29213 *	US-PATENT-4,565,886	c 27	N86-21675 *	US-PATENT-4,637,447	c 37	N87-17036 *
US-PATENT-4,516,071	c 33	N85-30187 *	US-PATENT-4,566,447	c 54	N86-22112 *	US-PATENT-4,638,083	c 27	N87-16907 *
US-PATENT-4,516,435	c 37	N85-29286 *	US-PATENT-4,567,301	c 23	N86-21582 *	US-PATENT-4,641,499	c 31	N87-21159 *
US-PATENT-4,517,472	c 33	N85-29147 *	US-PATENT-4,567,348	c 37	N86-21850 *	US-PATENT-4,642,523	c 33	N87-21234 *
US-PATENT-4,517,505	c 37	N85-30333 *	US-PATENT-4,568,733	c 24	N86-21590 *	US-PATENT-4,644,234	c 33	N87-21233 *
US-PATENT-4,517,530	c 33	N85-29143 *	US-PATENT-4,572,004	c 35	N86-25752 *	US-PATENT-4,644,306	c 33	N87-22895 *
US-PATENT-4,518,277	c 37	N85-30336 *	US-PATENT-4,572,699	c 37	N87-22976 *	US-PATENT-4,644,794	c 71	N87-21652 *
US-PATENT-4,518,625	c 24	N85-30027 *	US-PATENT-4,573,356	c 71	N88-24241 *	US-PATENT-4,645,358	c 32	N87-21206 *
US-PATENT-4,518,722	c 27	N85-29044 *	US-PATENT-4,578,678	c 04	N86-27270 *	US-PATENT-4,646,860	c 85	N87-21755 *
US-PATENT-4,519,545	c 37	N85-29283 *	US-PATENT-4,578,920	c 37	N86-25789 *	US-PATENT-4,647,144	c 74	N87-21679 *
US-PATENT-4,520,601	c 37	N85-30335 *	US-PATENT-4,579-782	c 24	N86-25416 *	US-PATENT-4,647,615	c 27	N87-22845 *
US-PATENT-4,520,656	c 71	N85-29693 *	US-PATENT-4,579,302	c 18	N86-24729 *	US-PATENT-4,648,133	c 32	N87-21207 *
US-PATENT-4,521,077	c 74	N85-29750 *	US-PATENT-4,579,475	c 37	N86-27630 *	US-PATENT-4,648,267	c 34	N87-21255 *
US-PATENT-4,521,659	c 31	N85-29083 *	US-PATENT-4,580-791	c 37	N86-25790 *	US-PATENT-4,648,569	c 08	N87-20999 *
US-PATENT-4,521,688	c 35	N85-30281 *	US-PATENT-4,582,277	c 16	N86-26352 *	US-PATENT-4,649,189	c 27	N87-21112 *
US-PATENT-4,521,702	c 33	N85-29145 *	US-PATENT-4,582,289	c 37	N87-21333 *	US-PATENT-4,649,273	c 72	N87-21661 *
US-PATENT-4,521,854	c 33	N85-29142 *	US-PATENT-4,582,590	c 25	N86-25428 *	US-PATENT-4,649,278	c 72	N87-21660 *
US-PATENT-4,522,469	c 76	N85-33826 *	US-PATENT-4,583,587	c 34	N86-27593 *	US-PATENT-4,649,287	c 44	N87-21410 *
US-PATENT-4,522,661	c 76	N85-30922 *	US-PATENT-4,583,860	c 74	N86-26190 *	US-PATENT-4,649,541	c 60	N87-21591 *
US-PATENT-4,522,755	c 27	N86-19455 *	US-PATENT-4,584,249	c 44	N86-25874 *	US-PATENT-4,649,750	c 71	N87-21653 *
US-PATENT-4,522,844	c 26	N85-29005 *	US-PATENT-4,584,510	c 08	N86-27288 *	US-PATENT-4,650,108	c 37	N87-21334 *
US-PATENT-4,523,008	c 27	N85-29043 *	US-PATENT-4,584,887	c 35	N86-26595 *	US-PATENT-4,650,385	c 37	N87-22976 *
US-PATENT-4,523,682	c 71	N85-30765 *	US-PATENT-4,585,191	c 20	N86-26368 *	US-PATENT-4,652,833	c 03	N87-21235 *
US-PATENT-4,523,741	c 37	N85-29284 *	US-PATENT-4,585,344	c 35	N86-25753 *	US-PATENT-4,654,065	c 27	N87-21111 *
US-PATENT-4,523,810	c 74	N85-29749 *	US-PATENT-4,586,140	c 06	N86-27280 *	US-PATENT-4,654,110	c 76	N87-23286 *
US-PATENT-4,524,237	c 44	N85-30475 *	US-PATENT-4,586,394	c 35	N87-21304 *	US-PATENT-4,655,482	c 37	N87-22977 *
US-PATENT-4,526,925	c 27	N86-20560 *	US-PATENT-4,586,487	c 44	N86-27706 *	US-PATENT-4,657,044	c 37	N87-21332 *
US-PATENT-4,526,925	c 27	N87-22845 *	US-PATENT-4,587,312	c 27	N86-27450 *	US-PATENT-4,660,000	c 33	N87-21232 *
US-PATENT-4,527,092	c 37	N85-33489 *	US-PATENT-4,587,324	c 23	N86-32525 *	US-PATENT-4,661,558	c 27	N87-22848 *
US-PATENT-4,527,910	c 37	N85-33490 *	US-PATENT-4,587,526	c 37	N86-25791 *	US-PATENT-4,661,770	c 33	N87-22894 *
US-PATENT-4,528,386	c 23	N85-33187 *	US-PATENT-4,588,778	c 27	N86-27451 *	US-PATENT-4,662,220	c 35	N87-22953 *
US-PATENT-4,528,417	c 44	N85-34441 *	US-PATENT-4,588,986	c 32	N86-27513 *	US-PATENT-4,662,751	c 74	N87-23259 *
US-PATENT-4,528,639	c 60	N85-33701 *	US-PATENT-4,591,772	c 37	N86-27629 *	US-PATENT-4,663-627	c 06	N87-22678 *
US-PATENT-4,529,358	c 34	N85-33433 *	US-PATENT-4,591,838	c 25	N86-27431 *	US-PATENT-4,663,483	c 27	N87-22847 *
US-PATENT-4,531,143	c 33	N86-19516 *	US-PATENT-4,593,415	c 54	N86-28618 *	US-PATENT-4,664,177	c 34	N87-22950 *
US-PATENT-4,532,797	c 35	N85-34373 *	US-PATENT-4,594,540	c 31	N86-29055 *	US-PATENT-4,664,177	c 34	N88-23958 *
US-PATENT-4,533,101	c 07	N85-35194 *	US-PATENT-4,594,720	c 36	N86-29204 *	US-PATENT-4,664,344	c 37	N87-22985 *
US-PATENT-4,533,242	c 74	N85-34629 *	US-PATENT-4,594,734	c 54	N86-28620 *	US-PATENT-4,664,980	c 27	N87-23736 *
US-PATENT-4,534,166	c 07	N85-35195 *	US-PATENT-4,595,399	c 35	N86-29174 *	US-PATENT-4,665,277	c 33	N87-23879 *
US-PATENT-4,535,033	c 24	N85-35233 *	US-PATENT-4,595,548	c 27	N86-29039 *	US-PATENT-4,665,334	c 37	N87-23970 *
US-PATENT-4,535,035	c 26	N85-35267 *	US-PATENT-4,596,626	c 76	N86-28760 *	US-PATENT-4,666,086	c 37	N87-24689 *
US-PATENT-4,535,636	c 35	N85-34375 *	US-PATENT-4,598,007	c 24	N86-28131 *	US-PATENT-4,666,561	c 25	N88-23846 *
US-PATENT-4,536,114	c 37	N85-34401 *	US-PATENT-4,598,427	c 54	N86-28619 *	US-PATENT-4,668,589	c 27	N87-25469 *
US-PATENT-4,536,565	c 27	N85-34280 *	US-PATENT-4,598,428	c 54	N86-29507 *	US-PATENT-4,669,354	c 37	N87-23983 *
US-PATENT-4,537,554	c 85	N85-34722 *	US-PATENT-4,598,981	c 74	N86-28732 *	US-PATENT-4,669,836	c 52	N87-24874 *
US-PATENT-4,537,834	c 27	N85-34281 *	US-PATENT-4,599,001	c 74	N86-29650 *	US-PATENT-4,669,958	c 08	N87-23631 *
US-PATENT-4,538,066	c 35	N85-34374 *	US-PATENT-4,600,299	c 74	N86-32266 *	US-PATENT-4,670,565	c 27	N87-23751 *
US-PATENT-4,538,446	c 34	N86-12547 *	US-PATENT-4,600,301	c 35	N86-32697 *	US-PATENT-4,672,202	c 37	N87-23982 *
US-PATENT-4,538,778	c 08	N85-35200 *	US-PATENT-4,600,769	c 27	N86-31726 *	US-PATENT-4,675,379	c 27	N87-24564 *
US-PATENT-4,539,293	c 23	N85-35227 *	US-PATENT-4,600,840	c 72	N86-33127 *	US-PATENT-4,675,563	c 33	N87-23904 *
US-PATENT-4,540,986	c 04	N86-19304 *	US-PATENT-4,602,081	c 27	N86-32568 *	US-PATENT-4,675,880	c 32	N87-25511 *
US-PATENT-4,542,520	c 74	N86-20126 *	US-PATENT-4,602,509	c 35	N86-32695 *	US-PATENT-4,676,110	c 39	N87-25601 *
US-PATENT-4,542,858	c 33	N86-20669 *	US-PATENT-4,603,061	c 27	N86-31727 *	US-PATENT-4,676,846	c 26	N87-28647 *
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US-PATENT-4,543,295	c 27	N86-20561 *	US-PATENT-4,604,038	c 37	N86-32738 *	US-PATENT-4,676,962	c 23	N87-23698 *
US-PATENT-4,543,302	c 44	N86-19721 *	US-PATENT-4,604,181	c 27	N86-32569 *	US-PATENT-4,677,629	c 36	N87-23960 *
US-PATENT-4,543,442	c 76	N86-20150 *	US-PATENT-4,604,844	c 37	N86-32737 *	US-PATENT-4,677,636	c 36	N87-23961 *
US-PATENT-4,544,025	c 35	N86-20750 *	US-PATENT-4,604,903	c 35	N86-32696 *	US-PATENT-4,677,642	c 35	N87-23944 *
US-PATENT-4,544,068	c 35	N86-20751 *	US-PATENT-4,605,155	c 37	N86-32736 *	US-PATENT-4,677,803	c 31	N87-25492 *
US-PATENT-4,545,025	c 60	N86-21154 *	US-PATENT-4,605,303	c 09	N86-32447 *	US-PATENT-4,678,438	c 14	N87-25344 *
US-PATENT-4,545,553	c 33	N86-20671 *	US-PATENT-4,605,424	c 33	N90-20320 *	US-PATENT-4,680,897	c 31	N87-25491 *
US-PATENT-4,545,586	c 37	N86-20788 *	US-PATENT-4,605,946	c 76	N87-13313 *	US-PATENT-4,681-818	c 26	N87-25455 *
US-PATENT-4,545,723	c 37	N86-19603 *	US-PATENT-4,607,193	c 31	N86-32587 *	US-PATENT-4,681,142	c 37	N87-25573 *
US-PATENT-4,546,248	c 32	N86-20647 *	US-PATENT-4,608,452	c 44	N86-32875 *	US-PATENT-4,681,437	c 76	N87-25862 *
US-PATENT-4,547,121	c 37	N86-20789 *	US-PATENT-4,608,821	c 20	N87-16875 *	US-PATENT-4,682,006	c 74	N87-25843 *
US-PATENT-4,547,686	c 33	N86-20672 *	US-PATENT-4,610,736	c 26	N87-14482 *	US-PATENT-4,682,053	c 36	N87-25567 *
US-PATENT-4,548,083	c 39	N86-20841 *	US-PATENT-4,612,072	c 76	N87-15882 *	US-PATENT-4,682,225	c 17	N87-25348 *
US-PATENT-4,549,435	c 35	N86-20752 *	US-PATENT-4,614,428	c 74	N87-14971 *	US-PATENT-4,682,343	c 33	N87-25531 *
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US-PATENT-4,550,292	c 33	N86-20668 *	US-PATENT-4,618,380	c 35	N87-14671 *	US-PATENT-4,684,156	c 18	N87-27713 *
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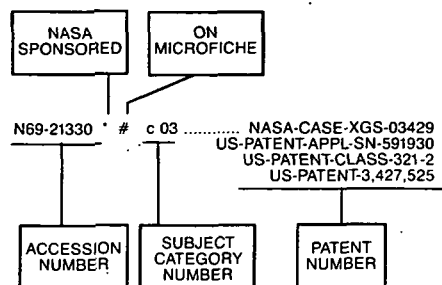
US-PATENT-4,697,922	c 36	N88-14350 *	US-PATENT-4,786,168	c 33	N89-14385 *	US-PATENT-4,907,233	c 17	N90-21061 *
US-PATENT-4,698,028	c 33	N88-14270 *	US-PATENT-4,788,271	c 27	N89-14337 *	US-PATENT-4,909,133	c 37	N90-22042 *
US-PATENT-4,698,484	c 37	N88-14362 *	US-PATENT-4,790,026	c 60	N89-26400 *	US-PATENT-4,909,313	c 34	N90-21999 *
US-PATENT-4,698,518	c 33	N88-24862 *	US-PATENT-4,798,433	c 74	N89-25689 *	US-PATENT-4,909,933	c 29	N90-21209 *
US-PATENT-4,698,723	c 03	N88-14083 *	US-PATENT-4,800,756	c 71	N90-12289 *	US-PATENT-4,910,233	c 27	N90-21198 *
US-PATENT-4,704,168	c 26	N88-14179 *	US-PATENT-4,805,368	c 18	N89-28554 *	US-PATENT-4,910,396	c 74	N90-22383 *
US-PATENT-4,704,197	c 25	N88-24732 *	US-PATENT-4,807,834	c 18	N89-25266 *	US-PATENT-4,911,062	c 24	N90-21822 *
US-PATENT-4,706,387	c 37	N88-14361 *	US-PATENT-4,809,003	c 32	N89-28672 *	US-PATENT-4,911,738	c 35	N90-22024 *
US-PATENT-4,706,910	c 02	N88-14071 *	US-PATENT-4,809,441	c 37	N89-28831 *	US-PATENT-4,911,890	c 35	N90-22025 *
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US-PATENT-4,711,857	c 76	N88-14836 *	US-PATENT-4,819,064	c 32	N89-28676 *	US-PATENT-4,913,534	c 35	N91-13694 *
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US-PATENT-4,713,275	c 24	N88-18628 *	US-PATENT-4,820,488	c 26	N89-28621 *	US-PATENT-4,917,302	c 37	N90-23751 *
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US-PATENT-4,726,890	c 76	N88-24543 *	US-PATENT-4,836,035	c 35	N90-17117 *	US-PATENT-4,919,899	c 76	N90-24169 *
US-PATENT-4,727,751	c 02	N88-23759 *	US-PATENT-4,836,707	c 37	N90-17154 *	US-PATENT-4,920,487	c 62	N91-14769 *
US-PATENT-4,728,257	c 37	N88-23978 *	US-PATENT-4,837,300	c 27	N90-16950 *	US-PATENT-4,921,212	c 37	N91-14609 *
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US-PATENT-4,735,381	c 05	N88-23765 *	US-PATENT-4,839,121	c 31	N90-19425 *	US-PATENT-4,923,741	c 54	N90-25498 *
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US-PATENT-4,736,676	c 37	N88-23981 *	US-PATENT-4,840,394	c 37	N90-17153 *	US-PATENT-4,925,297	c 36	N90-25340 *
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US-PATENT-4,736,927	c 35	N88-24927 *	US-PATENT-4,842,223	c 18	N90-19278 *	US-PATENT-4,926,694	c 24	N91-14430 *
US-PATENT-4,738,137	c 35	N88-23966 *	US-PATENT-4,842,224	c 18	N90-16860 *	US-PATENT-4,927,326	c 37	N91-14608 *
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US-PATENT-4,750,031	c 33	N88-23941 *	US-PATENT-4,845,728	c 60	N90-21525 *	US-PATENT-4,932,807	c 37	N91-15544 *
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US-PATENT-4,752,372	c 25	N88-23845 *	US-PATENT-4,847,502	c 35	N90-20351 *	US-PATENT-4,936,309	c 52	N91-14709 *
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US-PATENT-4,757,767	c 18	N88-26398 *	US-PATENT-4,848,987	c 29	N90-20236 *	US-PATENT-4,937,356	c 23	N91-14419 *
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US-PATENT-4,762,173	c 34	N88-29132 *	US-PATENT-4,851,071	c 31	N90-19427 *	US-PATENT-4,945,012	c 33	N91-14538 *
US-PATENT-4,762,619	c 31	N88-29052 *	US-PATENT-4,851,491	c 27	N90-21177 *	US-PATENT-4,945,549	c 32	N91-14523 *
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US-PATENT-4,763,762	c 37	N88-29181 *	US-PATENT-4,852,578	c 52	N90-21519 *	US-PATENT-4,946,421	c 37	N91-17388 *
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US-PATENT-4,765,139	c 35	N88-29151 *	US-PATENT-4,858,717	c 31	N90-21215 *	US-PATENT-4,952,811	c 35	N91-14588 *
US-PATENT-4,765,187	c 35	N88-29150 *	US-PATENT-4,858,857	c 18	N90-20126 *	US-PATENT-4,952,836	c 76	N91-14872 *
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US-PATENT-4,766,286	c 37	N88-30131 *	US-PATENT-4,860,014	c 32	N90-20280 *	US-PATENT-4,955,653	c 37	N91-14615 *
US-PATENT-4,766,369	c 35	N88-29149 *	US-PATENT-4,860,074	c 35	N90-21358 *	US-PATENT-4,956,996	c 35	N91-15511 *
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US-PATENT-4,766,724	c 09	N88-28939 *	US-PATENT-4,860,295	c 36	N91-17360 *	US-PATENT-4,957,357	c 35	N91-14591 *
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N69-27499* #	c 31	NASA-CASE-XMS-12158-1 US-PATENT-APPL-SN-762936 US-PATENT-CLASS-244-1 US-PATENT-3,439,886	N69-39935* #	c 15	NASA-CASE-XNP-08882 US-PATENT-APPL-SN-640784 US-PATENT-CLASS-220-14 US-PATENT-3,446,387	N70-33180* #	c 15	NASA-CASE-XLA-00137 US-PATENT-APPL-SN-8203 US-PATENT-CLASS-93-1 US-PATENT-3,010,372
N69-27500* #	c 09	NASA-CASE-XNP-09228 US-PATENT-APPL-SN-584070 US-PATENT-CLASS-307-136 US-PATENT-3,430,063	N69-39936* #	c 06	NASA-CASE-XNP-04816 US-PATENT-APPL-SN-578926 US-PATENT-CLASS-73-23.1 US-PATENT-3,443,416	N70-33181* #	c 21	NASA-CASE-XLA-00120 US-PATENT-APPL-SN-853984 US-PATENT-CLASS-250-83.3 US-PATENT-3,038,077
N69-27502* #	c 15	NASA-CASE-XMF-04132 US-PATENT-APPL-SN-640788 US-PATENT-CLASS-220-55 US-PATENT-3,429,477	N69-39937* #	c 14	NASA-CASE-XNP-09750 US-PATENT-APPL-SN-632162 US-PATENT-CLASS-250-83 US-PATENT-3,456,112	N70-33182* #	c 09	NASA-CASE-XAC-00086 US-PATENT-APPL-SN-824755 US-PATENT-CLASS-340-147 US-PATENT-3,059,220
N69-27503* #	c 14	NASA-CASE-XFR-09479 US-PATENT-APPL-SN-653278 US-PATENT-CLASS-73-49.8 US-PATENT-3,433,079	N69-39974* #	c 07	NASA-CASE-XGS-05918 US-PATENT-APPL-SN-685497 US-PATENT-CLASS-343-7.5 US-PATENT-3,430,237	N70-33226* #	c 15	NASA-CASE-XLE-00020 US-PATENT-APPL-SN-387332 US-PATENT-CLASS-253-39.15 US-PATENT-3,011,760
N69-27504* #	c 15	NASA-CASE-XNP-09452 US-PATENT-APPL-SN-640789 US-PATENT-CLASS-267-1 US-PATENT-3,430,942	N69-39975* #	c 14	NASA-CASE-XLA-01781 US-PATENT-APPL-SN-441936 US-PATENT-CLASS-73-86 US-PATENT-3,425,268	N70-33241* #	c 28	NASA-CASE-XLE-00103 US-PATENT-APPL-SN-517100 US-PATENT-CLASS-60-39.74 US-PATENT-2,940,259
N69-27505* #	c 15	NASA-CASE-XLA-09122 US-PATENT-APPL-SN-619903 US-PATENT-CLASS-64-28 US-PATENT-3,430,460	N69-39978* #	c 07	NASA-CASE-XGS-02749 US-PATENT-APPL-SN-502753 US-PATENT-CLASS-179-15 US-PATENT-3,450,842	N70-33242* #	c 31	NASA-CASE-XLA-00165 US-PATENT-APPL-SN-47120 US-PATENT-CLASS-244-117 US-PATENT-3,028,128
N69-27871* #	c 15	NASA-CASE-XMS-04318 US-PATENT-APPL-SN-521996 US-PATENT-CLASS-219-347 US-PATENT-3,431,397	N69-39979* #	c 18	NASA-CASE-XGS-04119 US-PATENT-APPL-SN-452945 US-PATENT-CLASS-106-74 US-PATENT-3,454,410	N70-33254* #	c 14	NASA-CASE-XLA-00062 US-PATENT-APPL-SN-853983 US-PATENT-CLASS-88-16 US-PATENT-3,041,924
N69-31244* #	c 06	NASA-CASE-NPO-10714 US-PATENT-APPL-SN-817569 US-PATENT-CLASS-ERC-10187 US-PATENT-APPL-SN-825253	N69-39980* #	c 07	NASA-CASE-XGS-05211 US-PATENT-APPL-SN-590145 US-PATENT-CLASS-250-209 US-PATENT-3,444,380	N70-33255* #	c 02	NASA-CASE-XLA-00230 US-PATENT-APPL-SN-41455 US-PATENT-CLASS-244-43 US-PATENT-3,053,484
N69-33482* #	c 26	NASA-CASE-ERC-10120 US-PATENT-APPL-SN-827597 US-PATENT-CLASS-XMF-03873 US-PATENT-APPL-SN-543774	N69-39981* #	c 01	NASA-CASE-XLA-06095 US-PATENT-APPL-SN-683612 US-PATENT-CLASS-244-138 US-PATENT-3,443,779	N70-33264* #	c 15	NASA-CASE-XLE-00092 US-PATENT-APPL-SN-835146 US-PATENT-CLASS-253-39.15 US-PATENT-3,057,597
N69-39733* #	c 06	NASA-CASE-XMF-03873 US-PATENT-APPL-SN-543774 US-PATENT-CLASS-73-24 US-PATENT-3,429,177	N69-39982* #	c 14	NASA-CASE-XGS-01725 US-PATENT-APPL-SN-483891	N70-33265* #	c 28	NASA-CASE-XLE-00817 US-PATENT-APPL-SN-264735 US-PATENT-CLASS-60-35.3 US-PATENT-3,173,246
N69-39734* #	c 09	NASA-CASE-XMF-04238 US-PATENT-APPL-SN-562443				N70-33266* #	c 02	NASA-CASE-XLA-00221 US-PATENT-APPL-SN-51473 US-PATENT-CLASS-244-46 US-PATENT-3,064,928
						N70-33267* #	c 25	NASA-CASE-XLA-00675 US-PATENT-APPL-SN-178213 US-PATENT-CLASS-315-111 US-PATENT-3,171,060
						N70-33278* #	c 11	NASA-CASE-XLE-00168 US-PATENT-APPL-SN-842170 US-PATENT-CLASS-73-116 US-PATENT-3,063,291

N70-33279*	c 21	NASA-CASE-XFR-00181 US-PATENT-APPL-SN-28175 US-PATENT-CLASS-244-83 US-PATENT-3,028,126	N70-33386*	c 14	NASA-CASE-XLA-00113 US-PATENT-APPL-SN-2792 US-PATENT-CLASS-73-147 US-PATENT-3,001,395	N70-34559* #	c 09	NASA-CASE-LAR-10218-1 US-PATENT-APPL-SN-47441
N70-33283*	c 17	NASA-CASE-XLE-00151 US-PATENT-APPL-SN-848481 US-PATENT-CLASS-75-171 US-PATENT-2,971,837	N70-34134*	c 03	NASA-CASE-XLE-00212 US-PATENT-APPL-SN-151598 US-PATENT-CLASS-310-4 US-PATENT-3,202,844	N70-34596*	c 09	NASA-CASE-XMF-00324 US-PATENT-APPL-SN-109789 US-PATENT-CLASS-339-176 US-PATENT-3,189,884
N70-33284*	c 28	NASA-CASE-XLE-00078 US-PATENT-APPL-SN-18776 US-PATENT-CLASS-60-35.6 US-PATENT-3,049,876	N70-34135*	c 31	NASA-CASE-XLA-00686 US-PATENT-APPL-SN-195347 US-PATENT-CLASS-343-833 US-PATENT-3,202,998	N70-34646* #	c 03	NASA-CASE-NPO-11138 US-PATENT-APPL-SN-9251
N70-33285*	c 05	NASA-CASE-XLA-00118 US-PATENT-APPL-SN-840983 US-PATENT-CLASS-5-345 US-PATENT-3,038,175	N70-34156*	c 14	NASA-CASE-XLE-00266 US-PATENT-APPL-SN-202024 US-PATENT-CLASS-73-15 US-PATENT-3,204,447	N70-34661*	c 25	NASA-CASE-XLA-00147 US-PATENT-APPL-SN-178215 US-PATENT-CLASS-313-156 US-PATENT-3,201,635
N70-33286*	c 02	NASA-CASE-XLA-00142 US-PATENT-APPL-SN-26375 US-PATENT-CLASS-244-46 US-PATENT-3,028,122	N70-34157*	c 03	NASA-CASE-XMF-00517 US-PATENT-APPL-SN-216711 US-PATENT-CLASS-244-1 US-PATENT-3,204,889	N70-34664*	c 15	NASA-CASE-XMF-00515 US-PATENT-APPL-SN-287890 US-PATENT-CLASS-308-9 US-PATENT-3,199,931
N70-33287*	c 11	NASA-CASE-XLA-00112 US-PATENT-APPL-SN-843022 US-PATENT-CLASS-73-147 US-PATENT-3,005,339	N70-34158*	c 14	NASA-CASE-XGS-00359 US-PATENT-APPL-SN-94952 US-PATENT-CLASS-250-203 US-PATENT-3,205,361	N70-34675* #	c 08	NASA-CASE-XNP-04162-1 US-PATENT-APPL-SN-872664
N70-33288*	c 17	NASA-CASE-XLE-02428 US-PATENT-APPL-SN-339821 US-PATENT-CLASS-29-198 US-PATENT-3,170,773	N70-34159*	c 31	NASA-CASE-XMF-03856 US-PATENT-APPL-SN-416941 US-PATENT-CLASS-248-188.9 US-PATENT-3,208,707	N70-34697* #	c 14	NASA-CASE-NPO-11106 US-PATENT-APPL-SN-15020
N70-33305*	c 12	NASA-CASE-XLA-00229 US-PATENT-APPL-SN-18780 US-PATENT-CLASS-114-66.5 US-PATENT-3,016,863	N70-34160*	c 02	NASA-CASE-XLA-01804 US-PATENT-APPL-SN-353837 US-PATENT-CLASS-244-50 US-PATENT-3,208,694	N70-34699* #	c 15	NASA-CASE-NPO-10682 US-PATENT-APPL-SN-15023
N70-33311*	c 15	NASA-CASE-XLE-00046 US-PATENT-APPL-SN-686796 US-PATENT-CLASS-29-488 US-PATENT-3,008,229	N70-34161*	c 14	NASA-CASE-XLA-00203 US-PATENT-APPL-SN-227682 US-PATENT-CLASS-73-105 US-PATENT-3,208,272	N70-34705*	c 14	NASA-CASE-XMF-00456 US-PATENT-APPL-SN-298800 US-PATENT-CLASS-73-88.5 US-PATENT-3,212,325
N70-33312*	c 09	NASA-CASE-XLA-00141 US-PATENT-APPL-SN-19971 US-PATENT-CLASS-219-34 US-PATENT-3,005,081	N70-34162*	c 28	NASA-CASE-XMF-01544 US-PATENT-APPL-SN-394638 US-PATENT-CLASS-60-35.55 US-PATENT-3,208,215	N70-34743*	c 08	NASA-CASE-XGS-00174 US-PATENT-APPL-SN-120803 US-PATENT-CLASS-307-88 US-PATENT-3,198,955
N70-33322*	c 14	NASA-CASE-XLA-00135 US-PATENT-APPL-SN-861152 US-PATENT-CLASS-244-14 US-PATENT-3,004,735	N70-34175*	c 28	NASA-CASE-XLE-01783 US-PATENT-APPL-SN-313132 US-PATENT-CLASS-60-35.5 US-PATENT-3,210,927	N70-34778*	c 08	NASA-CASE-XLA-00471 US-PATENT-APPL-SN-197553 US-PATENT-CLASS-235-154 US-PATENT-3,194,951
N70-33323*	c 15	NASA-CASE-XMF-00341 US-PATENT-APPL-SN-77256 US-PATENT-CLASS-62-45 US-PATENT-3,012,407	N70-34176*	c 31	NASA-CASE-XMF-00389 US-PATENT-APPL-SN-151114 US-PATENT-CLASS-244-1 US-PATENT-3,202,381	N70-34783*	c 27	NASA-CASE-XLA-00304 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-18-39 US-PATENT-3,193,883
N70-33329*	c 11	NASA-CASE-XLA-00119 US-PATENT-APPL-SN-842171 US-PATENT-CLASS-240-1.2 US-PATENT-2,984,735	N70-34178*	c 02	NASA-CASE-XLA-00166 US-PATENT-APPL-SN-84961 US-PATENT-CLASS-244-46 US-PATENT-3,087,692	N70-34786*	c 11	NASA-CASE-XLA-00493 US-PATENT-APPL-SN-202029 US-PATENT-CLASS-73-432 US-PATENT-3,196,690
N70-33330*	c 15	NASA-CASE-XLE-00023 US-PATENT-APPL-SN-512352 US-PATENT-CLASS-78-1 US-PATENT-2,991,671	N70-34247*	c 15	NASA-CASE-XLE-00288 US-PATENT-APPL-SN-118200 US-PATENT-CLASS-62-50 US-PATENT-3,068,658	N70-34787*	c 08	NASA-CASE-XGS-00689 US-PATENT-APPL-SN-250451 US-PATENT-CLASS-235-176 US-PATENT-3,196,261
N70-33331*	c 28	NASA-CASE-XLA-00105 US-PATENT-APPL-SN-719173 US-PATENT-CLASS-60-35.6 US-PATENT-3,001,363	N70-34249*	c 15	NASA-CASE-XMF-00375 US-PATENT-APPL-SN-166969 US-PATENT-CLASS-72-56 US-PATENT-3,188,844	N70-34788*	c 28	NASA-CASE-XLE-00388 US-PATENT-APPL-SN-234568 US-PATENT-CLASS-55-306 US-PATENT-3,196,598
N70-33332*	c 02	NASA-CASE-XLE-00087 US-PATENT-APPL-SN-811509 US-PATENT-CLASS-244-12 US-PATENT-2,991,961	N70-34294*	c 28	NASA-CASE-XLE-00208 US-PATENT-APPL-SN-106135 US-PATENT-CLASS-60-35.54 US-PATENT-3,132,476	N70-34794*	c 14	NASA-CASE-XMF-00479 US-PATENT-APPL-SN-169977 US-PATENT-CLASS-73-71.2 US-PATENT-3,194,060
N70-33343*	c 03	NASA-CASE-XLA-00115 US-PATENT-APPL-SN-847027 US-PATENT-CLASS-244-1 US-PATENT-3,001,739	N70-34295*	c 21	NASA-CASE-XLA-01989 US-PATENT-APPL-SN-305020 US-PATENT-CLASS-244-1 US-PATENT-3,189,299	N70-34799*	c 14	NASA-CASE-XLA-00492 US-PATENT-APPL-SN-284265 US-PATENT-CLASS-73-88.5 US-PATENT-3,199,340
N70-33344*	c 33	NASA-CASE-XMS-00486 US-PATENT-APPL-SN-300113 US-PATENT-CLASS-244-1 US-PATENT-3,130,940	N70-34296*	c 31	NASA-CASE-XLA-00678 US-PATENT-APPL-SN-197551 US-PATENT-CLASS-244-1 US-PATENT-3,169,725	N70-34812*	c 33	NASA-CASE-XLE-00387 US-PATENT-APPL-SN-203411 US-PATENT-CLASS-219-19 US-PATENT-3,108,171
N70-33356*	c 28	NASA-CASE-XLE-00267 US-PATENT-APPL-SN-58147 US-PATENT-CLASS-60-35.5 US-PATENT-3,016,693	N70-34297*	c 21	NASA-CASE-XGS-00466 US-PATENT-APPL-SN-123597 US-PATENT-CLASS-250-83.3 US-PATENT-3,188,472	N70-34813*	c 14	NASA-CASE-XAC-00073 US-PATENT-APPL-SN-47122 US-PATENT-CLASS-73-147 US-PATENT-3,100,990
N70-33372*	c 28	NASA-CASE-XLE-00037 US-PATENT-APPL-SN-639589 US-PATENT-CLASS-253-39.15 US-PATENT-2,974,925	N70-34298*	c 14	NASA-CASE-XMF-00462 US-PATENT-APPL-SN-148001 US-PATENT-CLASS-88-14 US-PATENT-3,185,023	N70-34814*	c 15	NASA-CASE-XMF-00392 US-PATENT-APPL-SN-151112 US-PATENT-CLASS-219-137 US-PATENT-3,102,948
N70-33374*	c 28	NASA-CASE-XLA-00154 US-PATENT-APPL-SN-31242 US-PATENT-CLASS-60-35.6 US-PATENT-3,012,400	N70-34502*	c 09	NASA-CASE-XMF-00421 US-PATENT-APPL-SN-197548 US-PATENT-CLASS-317-140 US-PATENT-3,189,794	N70-34815*	c 11	NASA-CASE-XAC-00399 US-PATENT-APPL-SN-134481 US-PATENT-CLASS-35-12 US-PATENT-3,196,557
N70-33375*	c 28	NASA-CASE-XLE-00207 US-PATENT-APPL-SN-180370 US-PATENT-CLASS-60-35.6 US-PATENT-3,173,251	N70-34539*	c 21	NASA-CASE-XMF-00185 US-PATENT-APPL-SN-97112 US-PATENT-CLASS-244-76 US-PATENT-3,070,330	N70-34816*	c 14	NASA-CASE-XAC-00042 US-PATENT-APPL-SN-734805 US-PATENT-CLASS-73-398 US-PATENT-3,022,672
N70-33376*	c 15	NASA-CASE-XLE-00101 US-PATENT-APPL-SN-551961 US-PATENT-CLASS-251-173 US-PATENT-2,945,667	N70-34540*	c 33	NASA-CASE-XLA-00330 US-PATENT-APPL-SN-264729 US-PATENT-CLASS-219-121 US-PATENT-3,201,560	N70-34817*	c 15	NASA-CASE-XAC-00074 US-PATENT-APPL-SN-47123 US-PATENT-CLASS-137-340 US-PATENT-3,158,172
N70-33382*	c 15	NASA-CASE-XLE-00010 US-PATENT-APPL-SN-554899 US-PATENT-CLASS-266-19 US-PATENT-2,934,331	N70-34545*	c 33	NASA-CASE-XLE-00490 US-PATENT-APPL-SN-252259 US-PATENT-CLASS-219-347 US-PATENT-3,189,726	N70-34818*	c 14	NASA-CASE-XLE-00503 US-PATENT-APPL-SN-261912 US-PATENT-CLASS-73-136 US-PATENT-3,196,675
						N70-34819*	c 09	NASA-CASE-XGS-00381 US-PATENT-APPL-SN-104188 US-PATENT-CLASS-307-88.5 US-PATENT-3,085,165
						N70-34820*	c 14	NASA-CASE-XAC-00030 US-PATENT-APPL-SN-760819

		US-PATENT-CLASS-73-401			US-PATENT-APPL-SN-178721			US-PATENT-3,150,387
		US-PATENT-3,024,659			US-PATENT-CLASS-310-5			NASA-CASE-XMF-00923
N70-34844*	c 11	NASA-CASE-XLE-00252			US-PATENT-3,205,381	N70-36802*	c 28	US-PATENT-APPL-SN-264736
		US-PATENT-APPL-SN-144803	N70-35409*	c 15	NASA-CASE-XHQ-01208			US-PATENT-CLASS-60-35.5
		US-PATENT-CLASS-73-116			US-PATENT-APPL-SN-42022			US-PATENT-3,159,967
		US-PATENT-3,199,343			US-PATENT-CLASS-121-38	N70-36803*	c 03	NASA-CASE-XNP-00644
N70-34850*	c 15	NASA-CASE-XLA-00754			US-PATENT-3,088,441			US-PATENT-APPL-SN-212496
		US-PATENT-APPL-SN-209479	N70-35422* #	c 28	NASA-CASE-LEW-10814-1			US-PATENT-CLASS-310-11
		US-PATENT-CLASS-244-100			US-PATENT-APPL-SN-38262			US-PATENT-3,158,764
		US-PATENT-3,143,321	N70-35423*	c 08	NASA-CASE-XNP-00432	N70-36804*	c 02	NASA-CASE-XLA-00898
N70-34856*	c 02	NASA-CASE-XAC-00139			US-PATENT-APPL-SN-127234			US-PATENT-APPL-SN-227683
		US-PATENT-APPL-SN-168560			US-PATENT-CLASS-340-347			US-PATENT-CLASS-244-152
		US-PATENT-CLASS-244-51			US-PATENT-3,172,097			US-PATENT-3,170,660
		US-PATENT-3,144,999	N70-35425*	c 09	NASA-CASE-XNP-00683	N70-36805*	c 26	NASA-CASE-XLA-00158
N70-34857*	c 05	NASA-CASE-XMS-00863			US-PATENT-APPL-SN-251451			US-PATENT-APPL-SN-221637
		US-PATENT-APPL-SN-221634			US-PATENT-CLASS-343-781			US-PATENT-CLASS-23-208
		US-PATENT-CLASS-9-11			US-PATENT-3,209,361			US-PATENT-3,174,827
		US-PATENT-3,155,992	N70-35427*	c 21	NASA-CASE-XGS-00809	N70-36806*	c 28	NASA-CASE-XLE-00145
N70-34858*	c 02	NASA-CASE-XLA-00806			US-PATENT-APPL-SN-85585			US-PATENT-APPL-SN-173081
		US-PATENT-APPL-SN-181828			US-PATENT-CLASS-88-1			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-26375			US-PATENT-3,083,611			US-PATENT-3,174,729
		US-PATENT-CLASS-244-46	N70-35440*	c 09	NASA-CASE-XAC-00435	N70-36807*	c 14	NASA-CASE-XLA-00100
		US-PATENT-3,170,657			US-PATENT-APPL-SN-164428			US-PATENT-APPL-SN-534901
N70-34859*	c 15	NASA-CASE-XLE-00715			US-PATENT-CLASS-330-14			US-PATENT-CLASS-73-178
		US-PATENT-APPL-SN-212174			US-PATENT-3,196,362			US-PATENT-3,168,827
		US-PATENT-CLASS-251-333	N70-35534*	c 27	NASA-CASE-XGS-03556	N70-36824*	c 14	NASA-CASE-XLA-00481
		US-PATENT-3,191,907			US-PATENT-APPL-SN-04259			US-PATENT-APPL-SN-120797
N70-34860*	c 28	NASA-CASE-XLE-00144			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-73-212
		US-PATENT-APPL-SN-177684			US-PATENT-3,191,379			US-PATENT-3,170,324
		US-PATENT-CLASS-60-35.6	N70-35587* #	c 14	NASA-CASE-FRC-10053	N70-36825*	c 02	NASA-CASE-XLA-01583
		US-PATENT-3,120,101			US-PATENT-APPL-SN-33398			US-PATENT-APPL-SN-327565
N70-34861*	c 15	NASA-CASE-XLE-00810	N70-35666*	c 14	NASA-CASE-XNP-00646			US-PATENT-CLASS-244-103
		US-PATENT-APPL-SN-249540			US-PATENT-APPL-SN-173981			US-PATENT-3,169,001
		US-PATENT-CLASS-188-1			US-PATENT-CLASS-324-33	N70-36845*	c 31	NASA-CASE-XMF-02108
		US-PATENT-3,164,222			US-PATENT-3,171,081			US-PATENT-APPL-SN-372727
N70-34946*	c 06	NASA-CASE-XNP-00733	N70-35679* #	c 15	NASA-CASE-MSC-12279-1			US-PATENT-CLASS-244-100
		US-PATENT-APPL-SN-256484			US-PATENT-APPL-SN-24154			US-PATENT-3,181,821
		US-PATENT-CLASS-62-15	N70-36400*	c 18	NASA-CASE-XMS-00259	N70-36846*	c 33	NASA-CASE-XLA-00189
		US-PATENT-3,192,730			US-PATENT-APPL-SN-145007			US-PATENT-APPL-SN-223003
N70-34966*	c 31	NASA-CASE-XFR-00929			US-PATENT-CLASS-117-69			US-PATENT-CLASS-102-49
		US-PATENT-APPL-SN-290868			US-PATENT-3,157,529			US-PATENT-3,180,264
		US-PATENT-CLASS-35-12	N70-36409*	c 15	NASA-CASE-XLA-00482	N70-36847*	c 33	NASA-CASE-XNP-00463
		US-PATENT-3,191,316			US-PATENT-APPL-SN-166970			US-PATENT-APPL-SN-259487
N70-34967*	c 15	NASA-CASE-XNP-00595			US-PATENT-CLASS-29-423			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-188594			US-PATENT-3,160,950			US-PATENT-3,177,933
		US-PATENT-CLASS-204-298	N70-36410*	c 31	NASA-CASE-XMF-00641	N70-36901*	c 15	NASA-CASE-XFR-00811
		US-PATENT-3,189,535			US-PATENT-APPL-SN-221945			US-PATENT-APPL-SN-257346
N70-35087*	c 15	NASA-CASE-XGS-00587			US-PATENT-CLASS-244-1			US-PATENT-CLASS-29-234
		US-PATENT-APPL-SN-313135			US-PATENT-3,158,336			US-PATENT-3,166,834
		US-PATENT-CLASS-137-340	N70-36411*	c 15	NASA-CASE-XLE-00164	N70-36907*	c 14	NASA-CASE-XNP-00614
		US-PATENT-3,211,169			US-PATENT-APPL-SN-107870			US-PATENT-APPL-SN-247419
N70-35089*	c 21	NASA-CASE-XNP-00438			US-PATENT-CLASS-60-39.66			US-PATENT-CLASS-33-1
		US-PATENT-APPL-SN-180381			US-PATENT-3,162,012			US-PATENT-3,163,935
		US-PATENT-CLASS-250-203	N70-36412*	c 15	NASA-CASE-XLE-00170	N70-36908*	c 15	NASA-CASE-XNP-00214
		US-PATENT-3,205,362			US-PATENT-APPL-SN-232914			US-PATENT-APPL-SN-180377
N70-35152*	c 05	NASA-CASE-XMS-01240			US-PATENT-CLASS-253-66			US-PATENT-CLASS-137-625.69
		US-PATENT-APPL-SN-331324			US-PATENT-3,164,369			US-PATENT-3,140,728
		US-PATENT-CLASS-297-216	N70-36492*	c 15	NASA-CASE-XLE-00397	N70-36910*	c 28	NASA-CASE-XNP-00610
		US-PATENT-3,165,356			US-PATENT-APPL-SN-195346			US-PATENT-APPL-SN-211464
N70-35219*	c 09	NASA-CASE-XNP-00611			US-PATENT-CLASS-137-614			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-140443			US-PATENT-3,170,486			US-PATENT-3,170,290
		US-PATENT-CLASS-343-781	N70-36493*	c 05	NASA-CASE-XMS-00864	N70-36911*	c 07	NASA-CASE-XNP-00748
		US-PATENT-3,209,360			US-PATENT-APPL-SN-258932			US-PATENT-APPL-SN-184649
N70-35220*	c 14	NASA-CASE-XNP-00449			US-PATENT-CLASS-9-316			US-PATENT-CLASS-343-17.2
		US-PATENT-APPL-SN-118169			US-PATENT-3,152,344			US-PATENT-3,183,506
		US-PATENT-CLASS-330-49	N70-36494*	c 09	NASA-CASE-XMF-00369	N70-36913*	c 11	NASA-CASE-XMF-00411
		US-PATENT-3,160,825			US-PATENT-APPL-SN-134782			US-PATENT-APPL-SN-158914
N70-35368*	c 14	NASA-CASE-XLE-00335			US-PATENT-CLASS-339-176			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-197554			US-PATENT-3,149,897			US-PATENT-3,182,496
		US-PATENT-CLASS-73-15.6	N70-36535*	c 15	NASA-CASE-XLE-00303	N70-36938*	c 21	NASA-CASE-XNP-00294
		US-PATENT-3,176,499			US-PATENT-APPL-SN-182692			US-PATENT-APPL-SN-182696
N70-35381*	c 28	NASA-CASE-XHQ-01897			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-129579			US-PATENT-3,170,286			US-PATENT-3,178,883
		US-PATENT-CLASS-60-35.6	N70-36536*	c 32	NASA-CASE-XLA-00204	N70-36943*	c 21	NASA-CASE-XLA-00281
		US-PATENT-3,121,309			US-PATENT-APPL-SN-189648			US-PATENT-APPL-SN-84962
N70-35382*	c 09	NASA-CASE-XNP-00540			US-PATENT-CLASS-135-1			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-140509			US-PATENT-3,170,471			US-PATENT-3,180,587
		US-PATENT-CLASS-343-781	N70-36616*	c 17	NASA-CASE-XLE-00283	N70-36946*	c 25	NASA-CASE-XLA-01354
		US-PATENT-3,212,096			US-PATENT-APPL-SN-107866			US-PATENT-APPL-SN-253774
N70-35383*	c 11	NASA-CASE-XMF-00580			US-PATENT-CLASS-75-171			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-343425			US-PATENT-3,167,426			US-PATENT-3,174,278
		US-PATENT-CLASS-248-119	N70-36617*	c 33	NASA-CASE-XLA-01291	N70-36947*	c 15	NASA-CASE-XNP-00416
		US-PATENT-3,194,525			US-PATENT-APPL-SN-277961			US-PATENT-APPL-SN-180395
N70-35394*	c 14	NASA-CASE-XNP-00708			US-PATENT-CLASS-244-1			US-PATENT-CLASS-189-38
		US-PATENT-APPL-SN-281069			US-PATENT-3,176,933			US-PATENT-3,169,613
		US-PATENT-CLASS-35-45	N70-36618*	c 14	NASA-CASE-XLE-00143	N70-37245*	c 28	NASA-CASE-XLE-00376
		US-PATENT-3,196,558			US-PATENT-APPL-SN-104187			US-PATENT-APPL-SN-139007
N70-35395*	c 21	NASA-CASE-XNP-00465			US-PATENT-CLASS-324-61			US-PATENT-CLASS-60-35.5
		US-PATENT-APPL-SN-180379			US-PATENT-3,176,222			US-PATENT-3,156,090
		US-PATENT-CLASS-244-1	N70-36654*	c 31	NASA-CASE-XMF-02853	N70-37924*	c 31	NASA-CASE-XGS-00260
		US-PATENT-3,206,141			US-PATENT-APPL-SN-360182			US-PATENT-APPL-SN-187446
N70-35407*	c 15	NASA-CASE-XLE-00815			US-PATENT-CLASS-244-100			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-300712			US-PATENT-3,175,789			US-PATENT-3,090,580
		US-PATENT-CLASS-251-11	N70-36778*	c 03	NASA-CASE-XLA-00838	N70-37925*	c 15	NASA-CASE-XLA-00128
		US-PATENT-3,211,414			US-PATENT-APPL-SN-192016			US-PATENT-APPL-SN-32496
N70-35408*	c 03	NASA-CASE-XGS-01593			US-PATENT-CLASS-9-8			US-PATENT-CLASS-73-384

N70-37938*	c 31	US-PATENT-3,093,000 NASA-CASE-XLA-00149 US-PATENT-APPL-SN-847023 US-PATENT-CLASS-244-1 US-PATENT-3,093,346	N70-38601*	c 15	US-PATENT-3,135,090 NASA-CASE-XLA-00679 US-PATENT-APPL-SN-213836 US-PATENT-CLASS-188-1 US-PATENT-3,128,845	N70-39925*	c 28	US-PATENT-3,229,884 NASA-CASE-XLE-00660 US-PATENT-APPL-SN-231604 US-PATENT-CLASS-313-11.5 US-PATENT-3,229,139
N70-37939*	c 02	NASA-CASE-XLE-00222 US-PATENT-APPL-SN-77252 US-PATENT-CLASS-244-113 US-PATENT-3,098,630	N70-38602*	c 14	NASA-CASE-XLE-00243 US-PATENT-APPL-SN-118203 US-PATENT-CLASS-324-106 US-PATENT-3,202,915	N70-39930*	c 03	NASA-CASE-XLA-00791 US-PATENT-APPL-SN-347960 US-PATENT-CLASS-102-49 US-PATENT-3,229,636
N70-37979*	c 33	NASA-CASE-XLA-00349 US-PATENT-APPL-SN-141220 US-PATENT-CLASS-62-467 US-PATENT-3,090,212	N70-38603*	c 15	NASA-CASE-XNP-00450 US-PATENT-APPL-SN-180394 US-PATENT-CLASS-137-495 US-PATENT-3,105,515	N70-39931*	c 28	NASA-CASE-XNP-01104 US-PATENT-APPL-SN-290867 US-PATENT-CLASS-60-39.48 US-PATENT-3,229,463
N70-37980*	c 28	NASA-CASE-XLE-00342 US-PATENT-APPL-SN-60531 US-PATENT-CLASS-60-35.5 US-PATENT-3,119,232	N70-38604*	c 09	NASA-CASE-XGS-00458 US-PATENT-APPL-SN-139006 US-PATENT-CLASS-307-88 US-PATENT-3,128,389	N70-40003*	c 14	NASA-CASE-XGS-01036 US-PATENT-APPL-SN-227692 US-PATENT-CLASS-88-14 US-PATENT-3,229,568
N70-37981*	c 31	NASA-CASE-XLA-00138 US-PATENT-APPL-SN-8204 US-PATENT-CLASS-343-18 US-PATENT-3,115,630	N70-38620*	c 15	NASA-CASE-XNP-00476 US-PATENT-APPL-SN-182698 US-PATENT-CLASS-308-9 US-PATENT-3,132,903	N70-40015*	c 26	NASA-CASE-XLA-02057 US-PATENT-APPL-SN-320595 US-PATENT-CLASS-23-277 US-PATENT-3,230,053
N70-37986*	c 31	NASA-CASE-XLA-00241 US-PATENT-APPL-SN-61329 US-PATENT-CLASS-244-1 US-PATENT-3,104,079	N70-38645*	c 28	NASA-CASE-XNP-00234 US-PATENT-APPL-SN-180382 US-PATENT-CLASS-60-35.54 US-PATENT-3,139,725	N70-40016*	c 30	NASA-CASE-XGS-00619 US-PATENT-APPL-SN-264728 US-PATENT-CLASS-244-1 US-PATENT-3,229,930
N70-38009*	c 02	NASA-CASE-XLA-00195 US-PATENT-APPL-SN-60536 US-PATENT-CLASS-244-140 US-PATENT-3,079,113	N70-38675*	c 11	NASA-CASE-XNP-00459 US-PATENT-APPL-SN-180384 US-PATENT-CLASS-73-432 US-PATENT-3,187,583	N70-40062*	c 15	NASA-CASE-XMS-01624 US-PATENT-APPL-SN-422867 US-PATENT-CLASS-55-408 US-PATENT-3,224,173
N70-38010*	c 31	NASA-CASE-XLA-00805 US-PATENT-APPL-SN-181829 US-PATENT-CLASS-244-46 US-PATENT-3,120,361	N70-38676*	c 31	NASA-CASE-XLA-00258 US-PATENT-APPL-SN-101029 US-PATENT-CLASS-244-1 US-PATENT-3,144,219	N70-40063*	c 07	NASA-CASE-XMS-00893 US-PATENT-APPL-SN-251449 US-PATENT-CLASS-343-18 US-PATENT-3,224,001
N70-38011*	c 02	NASA-CASE-XLA-00350 US-PATENT-APPL-SN-153266 US-PATENT-CLASS-244-46 US-PATENT-3,104,082	N70-38710*	c 28	NASA-CASE-XMF-00148 US-PATENT-APPL-SN-118202 US-PATENT-CLASS-60-35.6 US-PATENT-3,122,885	N70-40123*	c 09	NASA-CASE-XGS-01881 US-PATENT-APPL-SN-155584 US-PATENT-CLASS-324-43 US-PATENT-3,218,547
N70-38020*	c 15	NASA-CASE-XLE-00345 US-PATENT-APPL-SN-183978 US-PATENT-CLASS-62-55 US-PATENT-3,122,000	N70-38711*	c 28	NASA-CASE-XLE-00057 US-PATENT-APPL-SN-0914 US-PATENT-CLASS-60-35.55 US-PATENT-3,080,711	N70-40124*	c 12	NASA-CASE-XLE-01512 US-PATENT-APPL-SN-315096 US-PATENT-CLASS-149-2 US-PATENT-3,215,572
N70-38181*	c 28	NASA-CASE-XNP-00217 US-PATENT-APPL-SN-180374 US-PATENT-CLASS-102-49 US-PATENT-3,122,098	N70-38712*	c 09	NASA-CASE-XMF-01129 US-PATENT-APPL-SN-273534 US-PATENT-CLASS-318-260 US-PATENT-3,147,422	N70-40125*	c 08	NASA-CASE-XAC-00404 US-PATENT-APPL-SN-209801 US-PATENT-CLASS-340-347 US-PATENT-3,216,007
N70-38182*	c 11	NASA-CASE-XNP-00612 US-PATENT-APPL-SN-228507 US-PATENT-CLASS-220-63 US-PATENT-3,123,248	N70-38713*	c 03	NASA-CASE-XGS-00473 US-PATENT-APPL-SN-139012 US-PATENT-CLASS-200-39 US-PATENT-3,141,932	N70-40156*	c 15	NASA-CASE-XLA-01019 US-PATENT-APPL-SN-282749 US-PATENT-CLASS-248-358 US-PATENT-3,223,374
N70-38196*	c 11	NASA-CASE-XMF-00424 US-PATENT-APPL-SN-159804 US-PATENT-CLASS-73-517 US-PATENT-3,141,340	N70-38995*	c 09	NASA-CASE-XGS-00131 US-PATENT-APPL-SN-14488 US-PATENT-CLASS-331-113 US-PATENT-3,150,329	N70-40157*	c 14	NASA-CASE-XLA-00487 US-PATENT-APPL-SN-236748 US-PATENT-CLASS-73-178 US-PATENT-3,221,549
N70-38197*	c 28	NASA-CASE-XLE-00455 US-PATENT-APPL-SN-203409 US-PATENT-CLASS-75-222 US-PATENT-3,141,769	N70-38996*	c 15	NASA-CASE-XNP-00676 US-PATENT-APPL-SN-290870 US-PATENT-CLASS-222-389 US-PATENT-3,170,805	N70-40180*	c 15	NASA-CASE-XAC-00472 US-PATENT-APPL-SN-236749 US-PATENT-CLASS-73-142 US-PATENT-3,224,263
N70-38198*	c 17	NASA-CASE-XLE-00231 US-PATENT-APPL-SN-64226 US-PATENT-CLASS-22-203 US-PATENT-3,138,837	N70-38997*	c 12	NASA-CASE-XMF-00658 US-PATENT-APPL-SN-216710 US-PATENT-CLASS-137-1 US-PATENT-3,110,318	N70-40201*	c 14	NASA-CASE-XLE-00720 US-PATENT-APPL-SN-302749 US-PATENT-CLASS-73-134 US-PATENT-3,221,547
N70-38199*	c 28	NASA-CASE-XLE-00111 US-PATENT-APPL-SN-835152 US-PATENT-CLASS-60-39.48 US-PATENT-3,136,123	N70-38998*	c 09	NASA-CASE-XNP-00431 US-PATENT-APPL-SN-180380 US-PATENT-CLASS-340-147 US-PATENT-3,100,294	N70-40202*	c 07	NASA-CASE-XMF-00437 US-PATENT-APPL-SN-120795 US-PATENT-CLASS-343-705 US-PATENT-3,077,599
N70-38200*	c 07	NASA-CASE-XLA-00044 US-PATENT-APPL-SN-209478 US-PATENT-CLASS-343-705 US-PATENT-3,132,342	N70-38995*	c 28	NASA-CASE-XLE-00085 US-PATENT-APPL-SN-25175 US-PATENT-CLASS-253-66 US-PATENT-3,070,349	N70-40203*	c 14	NASA-CASE-XLE-00702 US-PATENT-APPL-SN-258931 US-PATENT-CLASS-73-116 US-PATENT-3,201,980
N70-38201*	c 09	NASA-CASE-XNP-00738 US-PATENT-APPL-SN-204015 US-PATENT-CLASS-174-115 US-PATENT-3,106,603	N70-38996*	c 15	NASA-CASE-XMF-00339 US-PATENT-APPL-SN-110591 US-PATENT-CLASS-308-9 US-PATENT-3,070,407	N70-40204*	c 15	NASA-CASE-XMF-00722 US-PATENT-APPL-SN-347626 US-PATENT-CLASS-228-50 US-PATENT-3,219,250
N70-38202*	c 11	NASA-CASE-XNP-00425 US-PATENT-APPL-SN-180396 US-PATENT-CLASS-89-1.7 US-PATENT-3,112,672	N70-38997*	c 18	NASA-CASE-XLE-00353 US-PATENT-APPL-SN-65548 US-PATENT-CLASS-252-58 US-PATENT-3,072,574	N70-40233*	c 14	NASA-CASE-XMS-01546 US-PATENT-APPL-SN-386467 US-PATENT-CLASS-222-45 US-PATENT-3,228,558
N70-38225*	c 15	NASA-CASE-XNP-00840 US-PATENT-APPL-SN-269222 US-PATENT-CLASS-267-1 US-PATENT-3,127,157	N70-38998*	c 14	NASA-CASE-XMF-00480 US-PATENT-APPL-SN-144804 US-PATENT-CLASS-248-346 US-PATENT-3,069,123	N70-40234*	c 09	NASA-CASE-XLE-01716 US-PATENT-APPL-SN-349778 US-PATENT-CLASS-126-270 US-PATENT-3,229,682
N70-38249*	c 28	NASA-CASE-XNP-00249 US-PATENT-APPL-SN-180391 US-PATENT-CLASS-60-35.6 US-PATENT-3,120,738	N70-38999*	c 28	NASA-CASE-XLE-00005 US-PATENT-APPL-SN-718095 US-PATENT-CLASS-60-35.6 US-PATENT-3,067,573	N70-40238*	c 14	NASA-CASE-XMF-00908 US-PATENT-APPL-SN-241085 US-PATENT-CLASS-250-201 US-PATENT-3,229,099
N70-38490*	c 17	NASA-CASE-XLE-00228 US-PATENT-APPL-SN-64224 US-PATENT-CLASS-29-183.5 US-PATENT-3,084,421	N70-39915*	c 09	NASA-CASE-XAC-00060 US-PATENT-APPL-SN-47121 US-PATENT-CLASS-200-19 US-PATENT-3,076,065	N70-40239*	c 14	NASA-CASE-XLA-00183 US-PATENT-APPL-SN-199202 US-PATENT-CLASS-250-203 US-PATENT-3,229,102
N70-38504*	c 28	NASA-CASE-XMS-00583 US-PATENT-APPL-SN-182699 US-PATENT-CLASS-60-35.6 US-PATENT-3,135,089	N70-39922*	c 05	NASA-CASE-XMS-01115 US-PATENT-APPL-SN-277404 US-PATENT-CLASS-128-29 US-PATENT-3,229,689	N70-40240*	c 14	NASA-CASE-XHO-04106 US-PATENT-APPL-SN-91180 US-PATENT-CLASS-250-105 US-PATENT-3,143,651
N70-38505*	c 28	NASA-CASE-XLE-00323 US-PATENT-APPL-SN-183977 US-PATENT-CLASS-60-35.6	N70-39924*	c 15	NASA-CASE-XMF-00640 US-PATENT-APPL-SN-341467 US-PATENT-CLASS-228-50	N70-40272*	c 09	NASA-CASE-XMF-00701 US-PATENT-APPL-SN-261917 US-PATENT-CLASS-307-88.5

N70-40273*	c 14	US-PATENT-3,218,479 NASA-CASE-XNP-00637 US-PATENT-APPL-SN-280776 US-PATENT-CLASS-95-58 US-PATENT-3,217,624	N70-41580*	c 03	US-PATENT-3,295,566 NASA-CASE-XLA-04622 US-PATENT-APPL-SN-277833 US-PATENT-CLASS-126-270 US-PATENT-3,295,512	N70-41811*	c 15	US-PATENT-3,287,031 NASA-CASE-XNP-01152 US-PATENT-APPL-SN-369337 US-PATENT-CLASS-137-539 US-PATENT-3,302,662
N70-40309*	c 30	NASA-CASE-XLA-00210 US-PATENT-APPL-SN-82658 US-PATENT-CLASS-343-18 US-PATENT-3,220,004	N70-41581*	c 05	NASA-CASE-XAC-01404 US-PATENT-APPL-SN-363348 US-PATENT-CLASS-74-471 US-PATENT-3,295,386	N70-41812*	c 14	NASA-CASE-XMS-03792 US-PATENT-APPL-SN-516159 US-PATENT-CLASS-200-61.45 US-PATENT-3,303,304
N70-40353*	c 30	NASA-CASE-XMF-03198 US-PATENT-APPL-SN-370134 US-PATENT-CLASS-89-1.7 US-PATENT-3,224,336	N70-41582*	c 28	NASA-CASE-XMF-01813 US-PATENT-APPL-SN-375674 US-PATENT-CLASS-181-52 US-PATENT-3,270,835	N70-41818*	c 28	NASA-CASE-XLE-00150 US-PATENT-APPL-SN-843032 US-PATENT-CLASS-29-157.3 US-PATENT-3,035,333
N70-40354*	c 15	NASA-CASE-XMF-01045 US-PATENT-APPL-SN-355130 US-PATENT-CLASS-188-1 US-PATENT-3,228,492	N70-41583*	c 18	NASA-CASE-XMF-01030 US-PATENT-APPL-SN-317389 US-PATENT-CLASS-161-115 US-PATENT-3,296,060	N70-41819*	c 05	NASA-CASE-XAC-00405 US-PATENT-APPL-SN-158916 US-PATENT-CLASS-128-1 US-PATENT-3,302,633
N70-40367*	c 28	NASA-CASE-XLE-00177 US-PATENT-APPL-SN-10812 US-PATENT-CLASS-60-35.3 US-PATENT-3,045,424	N70-41588*	c 31	NASA-CASE-XMF-01973 US-PATENT-APPL-SN-375682 US-PATENT-CLASS-244-1 US-PATENT-3,295,790	N70-41829*	c 15	NASA-CASE-XMF-01371 US-PATENT-APPL-SN-353634 US-PATENT-CLASS-287-119 US-PATENT-3,302,960
N70-40400*	c 14	NASA-CASE-XAC-00648 US-PATENT-APPL-SN-216939 US-PATENT-CLASS-73-147 US-PATENT-3,218,850	N70-41589*	c 02	NASA-CASE-XMF-01174 US-PATENT-APPL-SN-410331 US-PATENT-CLASS-244-100 US-PATENT-3,295,798	N70-41855*	c 31	NASA-CASE-XNP-02982 US-PATENT-APPL-SN-388966 US-PATENT-CLASS-244-1 US-PATENT-3,304,028
N70-41275*	c 28	NASA-CASE-XNP-01390 US-PATENT-APPL-SN-424157 US-PATENT-CLASS-60-259 US-PATENT-3,300,881	N70-41628*	c 25	NASA-CASE-XAC-00319 US-PATENT-APPL-SN-77251 US-PATENT-CLASS-315-111 US-PATENT-3,229,155	N70-41856*	c 21	NASA-CASE-XNP-01307 US-PATENT-APPL-SN-390250 US-PATENT-CLASS-244-1 US-PATENT-3,286,953
N70-41297*	c 05	NASA-CASE-XMS-01492 US-PATENT-APPL-SN-398131 US-PATENT-CLASS-55-35 US-PATENT-3,300,949	N70-41629*	c 15	NASA-CASE-XGS-02441 US-PATENT-APPL-SN-411944 US-PATENT-CLASS-285-331 US-PATENT-3,301,578	N70-41863*	c 02	NASA-CASE-XLA-01220 US-PATENT-APPL-SN-379417 US-PATENT-CLASS-244-16 US-PATENT-3,286,957
N70-41310*	c 15	NASA-CASE-XNP-01567 US-PATENT-APPL-SN-448898 US-PATENT-CLASS-248-178 US-PATENT-3,295,808	N70-41630*	c 02	NASA-CASE-XMS-00907 US-PATENT-APPL-SN-428890 US-PATENT-CLASS-244-138 US-PATENT-3,301,511	N70-41864*	c 03	NASA-CASE-XGS-01419 US-PATENT-APPL-SN-323182 US-PATENT-CLASS-136-179 US-PATENT-3,287,174
N70-41311*	c 28	NASA-CASE-XNP-00876 US-PATENT-APPL-SN-377784 US-PATENT-CLASS-60-251 US-PATENT-3,298,182	N70-41631*	c 31	NASA-CASE-XMS-04142 US-PATENT-APPL-SN-422865 US-PATENT-CLASS-244-1 US-PATENT-3,301,507	N70-41871*	c 31	NASA-CASE-XMS-04390 US-PATENT-APPL-SN-502729 US-PATENT-CLASS-62-45 US-PATENT-3,304,729
N70-41329*	c 05	NASA-CASE-XMS-01615 US-PATENT-APPL-SN-329595 US-PATENT-CLASS-128-2.05 US-PATENT-3,298,362	N70-41646*	c 15	NASA-CASE-XLE-01449 US-PATENT-APPL-SN-330209 US-PATENT-CLASS-137-197 US-PATENT-3,295,545	N70-41897*	c 27	NASA-CASE-XNP-01749 US-PATENT-APPL-SN-440033 US-PATENT-CLASS-149-109 US-PATENT-3,305,415
N70-41330*	c 14	NASA-CASE-XLE-00688 US-PATENT-APPL-SN-334672 US-PATENT-CLASS-73-32 US-PATENT-3,298,221	N70-41647*	c 14	NASA-CASE-XGS-00769 US-PATENT-APPL-SN-319893 US-PATENT-CLASS-242-55.19 US-PATENT-3,295,782	N70-41922*	c 28	NASA-CASE-XNP-02839 US-PATENT-APPL-SN-477333 US-PATENT-CLASS-60-202 US-PATENT-3,304,718
N70-41331*	c 07	NASA-CASE-XLA-01400 US-PATENT-APPL-SN-363653 US-PATENT-CLASS-325-65 US-PATENT-3,296,531	N70-41655*	c 09	NASA-CASE-XMF-00906 US-PATENT-APPL-SN-264731 US-PATENT-CLASS-324-113 US-PATENT-3,287,640	N70-41929*	c 09	NASA-CASE-XNP-01951 US-PATENT-APPL-SN-413662 US-PATENT-CLASS-335-300 US-PATENT-3,305,810
N70-41332*	c 14	NASA-CASE-XLA-00495 US-PATENT-APPL-SN-269215 US-PATENT-CLASS-324-70 US-PATENT-3,296,526	N70-41675*	c 09	NASA-CASE-XMS-01315 US-PATENT-APPL-SN-347101 US-PATENT-CLASS-307-88.5 US-PATENT-3,302,040	N70-41930*	c 21	NASA-CASE-XNP-01501 US-PATENT-APPL-SN-432027 US-PATENT-CLASS-343-12 US-PATENT-3,305,861
N70-41366*	c 14	NASA-CASE-XLA-01353 US-PATENT-APPL-SN-403960 US-PATENT-CLASS-73-147 US-PATENT-3,301,046	N70-41676*	c 14	NASA-CASE-XGS-01231 US-PATENT-APPL-SN-346356 US-PATENT-CLASS-250-71 US-PATENT-3,302,023	N70-41946*	c 14	NASA-CASE-XLE-00011 US-PATENT-APPL-SN-735911 US-PATENT-CLASS-88-14 US-PATENT-2,960,002
N70-41367*	c 32	NASA-CASE-XGS-00938 US-PATENT-APPL-SN-392970 US-PATENT-CLASS-214-1 US-PATENT-3,295,699	N70-41677*	c 11	NASA-CASE-XMF-01772 US-PATENT-APPL-SN-370135 US-PATENT-CLASS-73-116 US-PATENT-3,295,366	N70-41948*	c 31	NASA-CASE-XMF-01899 US-PATENT-APPL-SN-428882 US-PATENT-CLASS-60-257 US-PATENT-3,304,724
N70-41370*	c 32	NASA-CASE-XNP-01962 US-PATENT-APPL-SN-369640 US-PATENT-CLASS-92-94 US-PATENT-3,298,285	N70-41678*	c 07	NASA-CASE-XGS-02608 US-PATENT-APPL-SN-456578 US-PATENT-CLASS-343-18 US-PATENT-3,289,205	N70-41954*	c 03	NASA-CASE-XAC-03392 US-PATENT-APPL-SN-430776 US-PATENT-CLASS-74-519 US-PATENT-3,304,799
N70-41371*	c 15	NASA-CASE-XMF-01452 US-PATENT-APPL-SN-356692 US-PATENT-CLASS-29-271 US-PATENT-3,300,847	N70-41679*	c 15	NASA-CASE-XLA-01441 US-PATENT-APPL-SN-516151 US-PATENT-CLASS-102-49 US-PATENT-3,302,569	N70-41955*	c 14	NASA-CASE-XNP-02029 US-PATENT-APPL-SN-221276 US-PATENT-CLASS-88-14 US-PATENT-3,323,408
N70-41372*	c 07	NASA-CASE-XLA-01127 US-PATENT-APPL-SN-363654 US-PATENT-CLASS-325-65 US-PATENT-3,300,731	N70-41680*	c 07	NASA-CASE-XNP-02723 US-PATENT-APPL-SN-371857 US-PATENT-CLASS-343-14 US-PATENT-3,287,725	N70-41957*	c 14	NASA-CASE-XAC-01101 US-PATENT-APPL-SN-355129 US-PATENT-CLASS-73-141 US-PATENT-3,304,773
N70-41373*	c 31	NASA-CASE-XMS-01906 US-PATENT-APPL-SN-339040 US-PATENT-CLASS-244-1 US-PATENT-3,300,162	N70-41681*	c 14	NASA-CASE-XAC-02877 US-PATENT-APPL-SN-449902 US-PATENT-CLASS-73-30 US-PATENT-3,295,360	N70-41960*	c 15	NASA-CASE-XNP-05082 US-PATENT-APPL-SN-521753 US-PATENT-CLASS-174-68.5 US-PATENT-3,321,570
N70-41447*	c 28	NASA-CASE-XNP-00732 US-PATENT-APPL-SN-261918 US-PATENT-CLASS-210-314 US-PATENT-3,295,684	N70-41682*	c 14	NASA-CASE-XMS-05936 US-PATENT-APPL-SN-557868 US-PATENT-CLASS-73-517 US-PATENT-3,295,377	N70-41961*	c 08	NASA-CASE-XNP-00911 US-PATENT-APPL-SN-280777 US-PATENT-CLASS-178-67 US-PATENT-3,305,636
N70-41576*	c 28	NASA-CASE-XLE-00519 US-PATENT-APPL-SN-249542 US-PATENT-CLASS-313-63 US-PATENT-3,287,582	N70-41717*	c 09	NASA-CASE-XMS-02087 US-PATENT-APPL-SN-439489 US-PATENT-CLASS-165-1 US-PATENT-3,301,315	N70-41964*	c 10	NASA-CASE-XGS-01983 US-PATENT-APPL-SN-388023 US-PATENT-CLASS-333-79 US-PATENT-3,305,801
N70-41578*	c 16	NASA-CASE-XGS-01504 US-PATENT-APPL-SN-340113 US-PATENT-CLASS-331-94 US-PATENT-3,287,660	N70-41807*	c 14	NASA-CASE-XNP-01472 US-PATENT-APPL-SN-321656 US-PATENT-CLASS-178-7.2 US-PATENT-3,287,496	N70-41967*	c 28	NASA-CASE-XLA-02651 US-PATENT-APPL-SN-449901 US-PATENT-CLASS-102-49 US-PATENT-3,304,865
N70-41579*	c 32	NASA-CASE-XLE-00620 US-PATENT-APPL-SN-304698 US-PATENT-CLASS-138-119	N70-41808*	c 15	NASA-CASE-XMS-02532 US-PATENT-APPL-SN-398132 US-PATENT-CLASS-285-27	N70-41991*	c 10	NASA-CASE-XNP-03128 US-PATENT-APPL-SN-397665 US-PATENT-CLASS-250-83.6

N70-41992*	c 28	US-PATENT-3,321,628 NASA-CASE-XLE-00685 US-PATENT-APPL-SN-407595 US-PATENT-CLASS-60-260 US-PATENT-3,321,922	N71-10616*	c 14	US-PATENT-3,311,315 NASA-CASE-XMF-02433 US-PATENT-APPL-SN-405630 US-PATENT-CLASS-73-70.2 US-PATENT-3,310,978	N71-10781*	c 14	US-PATENT-3,316,716 NASA-CASE-XLE-01481 US-PATENT-APPL-SN-319905 US-PATENT-CLASS-73-99 US-PATENT-3,282,091
N70-41993*	c 15	NASA-CASE-XLE-01300 US-PATENT-APPL-SN-380960 US-PATENT-CLASS-73-100 US-PATENT-3,323,356	N71-10617*	c 15	NASA-CASE-XMF-01887 US-PATENT-APPL-SN-422868 US-PATENT-CLASS-308-5 US-PATENT-3,325,229	N71-10782*	c 15	NASA-CASE-XKS-01985 US-PATENT-APPL-SN-357337 US-PATENT-CLASS-285-24 US-PATENT-3,319,979
N70-41994*	c 14	NASA-CASE-XMF-02822 US-PATENT-APPL-SN-403959 US-PATENT-CLASS-73-194 US-PATENT-3,323,362	N71-10618*	c 09	NASA-CASE-XNP-03332 US-PATENT-APPL-SN-368123 US-PATENT-CLASS-313-63 US-PATENT-3,311,772	N71-10797*	c 14	NASA-CASE-XLE-01246 US-PATENT-APPL-SN-249537 US-PATENT-CLASS-324-61 US-PATENT-3,324,388
N70-42000*	c 05	NASA-CASE-XMS-03371 US-PATENT-APPL-SN-418931 US-PATENT-CLASS-73-432 US-PATENT-3,323,370	N71-10658*	c 15	NASA-CASE-XMS-03252 US-PATENT-APPL-SN-425362 US-PATENT-CLASS-60-54.5 US-PATENT-3,318,093	N71-10798*	c 09	NASA-CASE-XMS-00945 US-PATENT-APPL-SN-385530 US-PATENT-CLASS-330-22 US-PATENT-3,319,175
N70-42003*	c 32	NASA-CASE-XLA-02131 US-PATENT-APPL-SN-377777 US-PATENT-CLASS-73-90 US-PATENT-3,304,768	N71-10659*	c 09	NASA-CASE-XNP-01383 US-PATENT-APPL-SN-369336 US-PATENT-CLASS-324-77 US-PATENT-3,317,832	N71-10799*	c 15	NASA-CASE-XLA-01807 US-PATENT-APPL-SN-442558 US-PATENT-CLASS-287-189.36 US-PATENT-3,318,622
N70-42015*	c 31	NASA-CASE-XLA-01967 US-PATENT-APPL-SN-457875 US-PATENT-CLASS-244-135 US-PATENT-3,321,159	N71-10672*	c 15	NASA-CASE-XLA-01091 US-PATENT-APPL-SN-351259 US-PATENT-CLASS-264-102 US-PATENT-3,317,641	N71-10809*	c 15	NASA-CASE-XMF-02107 US-PATENT-APPL-SN-384811 US-PATENT-CLASS-140-124 US-PATENT-3,318,343
N70-42016*	c 02	NASA-CASE-XLA-01290 US-PATENT-APPL-SN-393451 US-PATENT-CLASS-244-42 US-PATENT-3,321,157	N71-10673*	c 09	NASA-CASE-XGS-01473 US-PATENT-APPL-SN-364867 US-PATENT-CLASS-307-88.5 US-PATENT-3,317,751	N71-11037*	c 02	NASA-CASE-XLA-06824-2 US-PATENT-APPL-SN-775966 US-PATENT-CLASS-244-31 US-PATENT-3,508,724
N70-42017*	c 15	NASA-CASE-XMS-04072 US-PATENT-APPL-SN-485960 US-PATENT-CLASS-30-228 US-PATENT-3,320,869	N71-10676*	c 07	NASA-CASE-XNP-03134 US-PATENT-APPL-SN-422095 US-PATENT-CLASS-333-21 US-PATENT-3,324,423	N71-11038*	c 02	NASA-CASE-XLA-06958 US-PATENT-APPL-SN-551815 US-PATENT-CLASS-244-44 US-PATENT-3,310,261
N70-42032*	c 10	NASA-CASE-XNP-02654 US-PATENT-APPL-SN-435387 US-PATENT-CLASS-307-88.5 US-PATENT-3,321,645	N71-10677*	c 09	NASA-CASE-XGS-01451 US-PATENT-APPL-SN-405629 US-PATENT-CLASS-318-138 US-PATENT-3,324,370	N71-11039*	c 02	NASA-CASE-MSC-12111-1 US-PATENT-APPL-SN-775877 US-PATENT-CLASS-244-23 US-PATENT-3,490,721
N70-42033*	c 15	NASA-CASE-XNP-02092 US-PATENT-APPL-SN-371856 US-PATENT-CLASS-156-345 US-PATENT-3,323,967	N71-10678*	c 21	NASA-CASE-XGS-01159 US-PATENT-APPL-SN-332313 US-PATENT-CLASS-250-203 US-PATENT-3,311,748	N71-11041* #	c 02	NASA-CASE-XLA-03659 US-PATENT-APPL-SN-444087 US-PATENT-CLASS-244-46 US-PATENT-3,270,989
N70-42034*	c 15	NASA-CASE-XNP-01412 US-PATENT-APPL-SN-426702 US-PATENT-CLASS-175-310 US-PATENT-3,321,034	N71-10728*	c 03	NASA-CASE-XNP-01464 US-PATENT-APPL-SN-430778 US-PATENT-CLASS-136-182 US-PATENT-3,317,352	N71-11043*	c 02	NASA-CASE-XLA-08801-1 US-PATENT-APPL-SN-710533 US-PATENT-CLASS-244-43 US-PATENT-3,493,197
N70-42073*	c 03	NASA-CASE-XFR-04104 US-PATENT-APPL-SN-476759 US-PATENT-CLASS-74-471 US-PATENT-3,323,386	N71-10746*	c 11	NASA-CASE-XMS-02977 US-PATENT-APPL-SN-416938 US-PATENT-CLASS-35-12 US-PATENT-3,281,963	N71-11049*	c 03	NASA-CASE-NPO-10109 US-PATENT-APPL-SN-701654 US-PATENT-CLASS-136-89 US-PATENT-3,532,551
N70-42074*	c 14	NASA-CASE-XLE-02998 US-PATENT-APPL-SN-516794 US-PATENT-CLASS-116-117 US-PATENT-3,323,484	N71-10747*	c 31	NASA-CASE-XMF-00442 US-PATENT-APPL-SN-202030 US-PATENT-CLASS-343-705 US-PATENT-3,277,486	N71-11050*	c 03	NASA-CASE-XNP-06506 US-PATENT-APPL-SN-577778 US-PATENT-CLASS-136-89 US-PATENT-3,446,676
N70-42075*	c 31	NASA-CASE-XMS-02677 US-PATENT-APPL-SN-472066 US-PATENT-CLASS-244-1 US-PATENT-3,321,154	N71-10748*	c 11	NASA-CASE-XFR-04147 US-PATENT-APPL-SN-476761 US-PATENT-CLASS-35-12 US-PATENT-3,281,965	N71-11051*	c 03	NASA-CASE-XNP-03378 US-PATENT-APPL-SN-360878 US-PATENT-CLASS-136-170 US-PATENT-3,282,740
N71-10500*	c 14	NASA-CASE-XLE-01609 US-PATENT-APPL-SN-438797 US-PATENT-CLASS-73-290 US-PATENT-3,326,043	N71-10771*	c 21	NASA-CASE-XNP-03914 US-PATENT-APPL-SN-468647 US-PATENT-CLASS-250-203 US-PATENT-3,317,731	N71-11052*	c 03	NASA-CASE-XLE-04526 US-PATENT-APPL-SN-640457 US-PATENT-CLASS-136-86 US-PATENT-3,507,704
N71-10560*	c 24	NASA-CASE-XLE-00808 US-PATENT-APPL-SN-307269 US-PATENT-CLASS-148-188 US-PATENT-3,310,443	N71-10772*	c 18	NASA-CASE-XLE-01765 US-PATENT-APPL-SN-316477 US-PATENT-CLASS-117-65.2 US-PATENT-3,317,341	N71-11053*	c 03	NASA-CASE-XGS-00886 US-PATENT-APPL-SN-319894 US-PATENT-CLASS-136-132 US-PATENT-3,282,739
N71-10574*	c 28	NASA-CASE-XLE-01902 US-PATENT-APPL-SN-485656 US-PATENT-CLASS-60-202 US-PATENT-3,324,659	N71-10773*	c 14	NASA-CASE-XLA-02605 US-PATENT-APPL-SN-459138 US-PATENT-CLASS-177-210 US-PATENT-3,316,991	N71-11055*	c 03	NASA-CASE-XMF-05843 US-PATENT-APPL-SN-666553 US-PATENT-CLASS-310-4 US-PATENT-3,509,386
N71-10577*	c 15	NASA-CASE-XLE-04677 US-PATENT-APPL-SN-447928 US-PATENT-CLASS-220-67 US-PATENT-3,326,407	N71-10774*	c 14	NASA-CASE-XLA-01131 US-PATENT-APPL-SN-322545 US-PATENT-CLASS-73-23 US-PATENT-3,312,101	N71-11056*	c 03	NASA-CASE-XNP-05821 US-PATENT-APPL-SN-545223 US-PATENT-CLASS-136-89 US-PATENT-3,493,437
N71-10578*	c 10	NASA-CASE-XMS-01554 US-PATENT-APPL-SN-414482 US-PATENT-CLASS-323-8 US-PATENT-3,325,723	N71-10775*	c 07	NASA-CASE-XLA-00901 US-PATENT-APPL-SN-269212 US-PATENT-CLASS-325-305 US-PATENT-3,311,832	N71-11057*	c 03	NASA-CASE-MSC-13112 US-PATENT-APPL-SN-765738 US-PATENT-CLASS-290-40 US-PATENT-3,508,070
N71-10582*	c 31	NASA-CASE-XLA-02132 US-PATENT-APPL-SN-453227 US-PATENT-CLASS-102-49 US-PATENT-3,286,630	N71-10776*	c 11	NASA-CASE-XLA-03127 US-PATENT-APPL-SN-447927 US-PATENT-CLASS-35-12 US-PATENT-3,281,964	N71-11058*	c 03	NASA-CASE-XGS-01475 US-PATENT-APPL-SN-344793 US-PATENT-CLASS-244-1 US-PATENT-3,459,391
N71-10604*	c 11	NASA-CASE-XMF-03248 US-PATENT-APPL-SN-337780 US-PATENT-CLASS-73-116 US-PATENT-3,310,980	N71-10777*	c 11	NASA-CASE-XLE-01533 US-PATENT-APPL-SN-334678 US-PATENT-CLASS-55-400 US-PATENT-3,282,035	N71-11189*	c 05	NASA-CASE-XFR-10856 US-PATENT-APPL-SN-626376 US-PATENT-CLASS-3,534,727
N71-10607*	c 26	NASA-CASE-XLE-02792 US-PATENT-APPL-SN-352400 US-PATENT-CLASS-148-1.5 US-PATENT-3,311,510	N71-10778*	c 15	NASA-CASE-XNP-00710 US-PATENT-APPL-SN-271821 US-PATENT-CLASS-251-61 US-PATENT-3,317,180	N71-11190*	c 05	NASA-CASE-XMS-04935 US-PATENT-APPL-SN-518487 US-PATENT-CLASS-128-142.5 US-PATENT-3,502,074
N71-10608*	c 03	NASA-CASE-XGS-03505 US-PATENT-APPL-SN-498167 US-PATENT-CLASS-136-28 US-PATENT-3,311,502	N71-10779*	c 14	NASA-CASE-XMF-02307 US-PATENT-APPL-SN-422869 US-PATENT-CLASS-73-40.5 US-PATENT-3,316,752	N71-11193*	c 05	NASA-CASE-ARC-10043-1 US-PATENT-APPL-SN-676012 US-PATENT-CLASS-128-2.1 US-PATENT-3,508,541
N71-10609*	c 07	NASA-CASE-XGS-01223 US-PATENT-APPL-SN-319892 US-PATENT-CLASS-242-55.19	N71-10780*	c 28	NASA-CASE-XLA-01043 US-PATENT-APPL-SN-379768 US-PATENT-CLASS-60-225	N71-11194*	c 05	NASA-CASE-XLA-05332- US-PATENT-APPL-SN-757861 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,407

N71-11195*	c 05	NASA-CASE-LAR-10007-1 US-PATENT-APPL-SN-770203 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,406	N71-12258*	c 03	NASA-CASE-XLA-00711 US-PATENT-APPL-SN-357334 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,012	N71-12506*	c 08	NASA-CASE-XNP-08832 US-PATENT-APPL-SN-681692 US-PATENT-CLASS-340-172.5 US-PATENT-3,535,696
N71-11199*	c 05	NASA-CASE-XKS-02342 US-PATENT-APPL-SN-407603 US-PATENT-CLASS-182-191 US-PATENT-3,262,518	N71-12259*	c 03	NASA-CASE-XLA-01396 US-PATENT-APPL-SN-357336 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,013	N71-12507*	c 08	NASA-CASE-XLA-01952 US-PATENT-APPL-SN-676386 US-PATENT-CLASS-340-324 US-PATENT-3,537,096
N71-11202*	c 05	NASA-CASE-XFR-08403 US-PATENT-APPL-SN-704420 US-PATENT-CLASS-73-23 US-PATENT-3,507,146	N71-12260*	c 03	NASA-CASE-XNP-01020 US-PATENT-APPL-SN-430780 US-PATENT-CLASS-60-97 US-PATENT-3,238,730	N71-12513*	c 09	NASA-CASE-XGS-07801 US-PATENT-APPL-SN-640452 US-PATENT-CLASS-148-188 US-PATENT-3,490,965
N71-11203*	c 05	NASA-CASE-XMS-09632-1 US-PATENT-APPL-SN-791693 US-PATENT-CLASS-128-142.5 US-PATENT-3,500,827	N71-12335*	c 05	NASA-CASE-XMS-00784 US-PATENT-APPL-SN-358127 US-PATENT-CLASS-2-2.1 US-PATENT-3,286,274	N71-12514*	c 09	NASA-CASE-XLA-07497 US-PATENT-APPL-SN-631848 US-PATENT-CLASS-307-252 US-PATENT-3,491,255
N71-11207*	c 05	NASA-CASE-XLA-03213 US-PATENT-APPL-SN-621715 US-PATENT-CLASS-202-182 US-PATENT-3,444,051	N71-12336*	c 05	NASA-CASE-XMS-05304 US-PATENT-APPL-SN-511567 US-PATENT-CLASS-244-4 US-PATENT-3,270,986	N71-12515*	c 09	NASA-CASE-XNP-08836 US-PATENT-APPL-SN-668968 US-PATENT-CLASS-340-174 US-PATENT-3,535,702
N71-11235*	c 06	NASA-CASE-XLA-03104 US-PATENT-APPL-SN-510155 US-PATENT-CLASS-260-78 US-PATENT-3,518,232	N71-12341*	c 05	NASA-CASE-MFS-14671 US-PATENT-APPL-SN-723476 US-PATENT-CLASS-297-385 US-PATENT-3,516,711	N71-12516*	c 09	NASA-CASE-XNP-09768 US-PATENT-APPL-SN-698629 US-PATENT-CLASS-307-243 US-PATENT-3,535,554
N71-11236*	c 06	NASA-CASE-XMF-08651 US-PATENT-APPL-SN-593594 US-PATENT-CLASS-260-72.5 US-PATENT-3,526,611	N71-12342*	c 05	NASA-CASE-XAC-05706 US-PATENT-APPL-SN-592694 US-PATENT-CLASS-325-143 US-PATENT-3,453,546	N71-12517*	c 09	NASA-CASE-XAC-10608-1 US-PATENT-APPL-SN-710561 US-PATENT-CLASS-333-80 US-PATENT-3,493,901
N71-11237*	c 06	NASA-CASE-XMF-10753 US-PATENT-APPL-SN-668751 US-PATENT-CLASS-260-46.5 US-PATENT-3,444,127	N71-12343*	c 05	NASA-CASE-MS-11253 US-PATENT-APPL-SN-695973 US-PATENT-CLASS-297-68 US-PATENT-3,466,085	N71-12518*	c 09	NASA-CASE-XNP-09808 US-PATENT-APPL-SN-692471 US-PATENT-CLASS-200-61.42 US-PATENT-3,488,461
N71-11238*	c 06	NASA-CASE-XLA-08802 US-PATENT-APPL-SN-640454 US-PATENT-CLASS-260-78 US-PATENT-3,532,673	N71-12344*	c 05	NASA-CASE-XMS-09636 US-PATENT-APPL-SN-586330 US-PATENT-CLASS-2-2.1 US-PATENT-3,492,672	N71-12519*	c 09	NASA-CASE-XMF-06519 US-PATENT-APPL-SN-656952 US-PATENT-CLASS-328-110 US-PATENT-3,535,644
N71-11239*	c 06	NASA-CASE-XMF-08655 US-PATENT-APPL-SN-593593 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,970	N71-12345*	c 05	NASA-CASE-MS-12086-1 US-PATENT-APPL-SN-812999 US-PATENT-CLASS-29-400 US-PATENT-3,490,130	N71-12520*	c 09	NASA-CASE-NPO-10230 US-PATENT-APPL-SN-691735 US-PATENT-CLASS-307-229 US-PATENT-3,535,547
N71-11240*	c 06	NASA-CASE-MFS-13994-1 US-PATENT-APPL-SN-715975 US-PATENT-CLASS-260-46.5 US-PATENT-3,516,964	N71-12346*	c 05	NASA-CASE-XMS-04212-1 US-PATENT-APPL-SN-607461 US-PATENT-CLASS-128-2.1 US-PATENT-3,490,440	N71-12521*	c 09	NASA-CASE-ARC-10030 US-PATENT-APPL-SN-679885 US-PATENT-CLASS-313-110 US-PATENT-3,493,805
N71-11242*	c 06	NASA-CASE-XMF-08656 US-PATENT-APPL-SN-593605 US-PATENT-CLASS-260-2.5 US-PATENT-3,493,524	N71-12351*	c 05	NASA-CASE-LAR-10056 US-PATENT-APPL-SN-674357 US-PATENT-CLASS-224-25 US-PATENT-3,493,153	N71-12526*	c 09	NASA-CASE-MS-12135-1 US-PATENT-APPL-SN-761404 US-PATENT-CLASS-317-31 US-PATENT-3,448,341
N71-11243*	c 06	NASA-CASE-XMF-08652 US-PATENT-APPL-SN-593606 US-PATENT-CLASS-260-2 US-PATENT-3,493,522	N71-12389*	c 07	NASA-CASE-XLA-01090 US-PATENT-APPL-SN-741824 US-PATENT-CLASS-250-199 US-PATENT-RE-26,548	N71-12539*	c 09	NASA-CASE-ERC-10552 US-PATENT-APPL-SN-720125 US-PATENT-CLASS-178-7.7 US-PATENT-3,535,444
N71-11266*	c 07	NASA-CASE-XLA-03076 US-PATENT-APPL-SN-591004 US-PATENT-CLASS-325-42 US-PATENT-3,508,152	N71-12390*	c 07	NASA-CASE-XER-09213 US-PATENT-APPL-SN-668302 US-PATENT-CLASS-332-9 US-PATENT-3,535,657	N71-12540*	c 09	NASA-CASE-XNP-01058 US-PATENT-APPL-SN-313136 US-PATENT-CLASS-315-160 US-PATENT-3,271,620
N71-11267*	c 07	NASA-CASE-XNP-10843 US-PATENT-APPL-SN-649358 US-PATENT-CLASS-325-363 US-PATENT-3,508,156	N71-12391*	c 07	NASA-CASE-XMS-05454-1 US-PATENT-APPL-SN-771803 US-PATENT-CLASS-343-17.7 US-PATENT-3,471,858	N71-12554*	c 10	NASA-CASE-NPO-10348 US-PATENT-APPL-SN-704668 US-PATENT-CLASS-324-95 US-PATENT-3,532,979
N71-11281*	c 07	NASA-CASE-XNP-10830 US-PATENT-APPL-SN-692332 US-PATENT-CLASS-178-69.5 US-PATENT-3,535,451	N71-12392*	c 07	NASA-CASE-XGS-01590 US-PATENT-APPL-SN-584067 US-PATENT-CLASS-178-88 US-PATENT-3,491,202	N71-13410*	c 01	NASA-CASE-XLA-00755 US-PATENT-APPL-SN-247423 US-PATENT-CLASS-244-35 US-PATENT-3,270,988
N71-11282*	c 07	NASA-CASE-XGS-02889 US-PATENT-APPL-SN-685748 US-PATENT-CLASS-329-104 US-PATENT-3,501,704	N71-12396*	c 07	NASA-CASE-GSC-10452 US-PATENT-APPL-SN-797794 US-PATENT-CLASS-343-776 US-PATENT-3,495,262	N71-13411*	c 01	NASA-CASE-XLA-05828 US-PATENT-APPL-SN-509460 US-PATENT-CLASS-235-61.6 US-PATENT-3,500,020
N71-11284*	c 07	NASA-CASE-XLA-01552 US-PATENT-APPL-SN-332339 US-PATENT-CLASS-325-65 US-PATENT-3,277,375	N71-12494*	c 08	NASA-CASE-XGS-04767 US-PATENT-APPL-SN-645584 US-PATENT-CLASS-307-296 US-PATENT-3,535,560	N71-13421*	c 02	NASA-CASE-XFR-00756 US-PATENT-APPL-SN-212173 US-PATENT-CLASS-235-150.22 US-PATENT-3,258,582
N71-11285*	c 07	NASA-CASE-NPO-10539 US-PATENT-APPL-SN-743429 US-PATENT-CLASS-343-779 US-PATENT-3,534,375	N71-12500*	c 08	NASA-CASE-XNP-07040 US-PATENT-APPL-SN-649357 US-PATENT-CLASS-332-31 US-PATENT-3,535,658	N71-13422*	c 02	NASA-CASE-XLA-06339 US-PATENT-APPL-SN-801336 US-PATENT-CLASS-244-76 US-PATENT-3,534,930
N71-11298*	c 07	NASA-CASE-XMF-01160 US-PATENT-APPL-SN-310507 US-PATENT-CLASS-340-198 US-PATENT-3,243,791	N71-12501*	c 08	NASA-CASE-XLA-00670 US-PATENT-APPL-SN-235162 US-PATENT-CLASS-340-347 US-PATENT-3,251,053	N71-13461*	c 06	NASA-CASE-LAR-10180-1 US-PATENT-APPL-SN-709398 US-PATENT-CLASS-250-41.9 US-PATENT-3,521,054
N71-11300*	c 07	NASA-CASE-XMS-07168 US-PATENT-APPL-SN-769788 US-PATENT-CLASS-178-6.6 US-PATENT-3,493,677	N71-12502*	c 08	NASA-CASE-NPO-10112 US-PATENT-APPL-SN-673226 US-PATENT-CLASS-340-172.5 US-PATENT-3,533,074	N71-13486*	c 09	NASA-CASE-MFS-20333 US-PATENT-APPL-SN-820965 US-PATENT-CLASS-307-149 US-PATENT-3,535,543
N71-11766*	c 21	NASA-CASE-LAR-10403 US-PATENT-APPL-SN-676391 US-PATENT-CLASS-343-6.5 US-PATENT-3,447,154	N71-12503*	c 08	NASA-CASE-NPO-10351 US-PATENT-APPL-SN-712065 US-PATENT-CLASS-328-37 US-PATENT-3,535,642	N71-13518*	c 09	NASA-CASE-MS-12178-1 US-PATENT-APPL-SN-845365 US-PATENT-CLASS-315-241 US-PATENT-3,530,336
N71-12217* #	c 01	NASA-CASE-FRC-10063 US-PATENT-APPL-SN-21263 US-PATENT-CLASS-340-04451 US-PATENT-APPL-SN-457876	N71-12504*	c 08	NASA-CASE-XMF-05835 US-PATENT-APPL-SN-627257 US-PATENT-CLASS-340-174 US-PATENT-3,493,942	N71-13521*	c 09	NASA-CASE-XKS-09348 US-PATENT-APPL-SN-677505 US-PATENT-CLASS-343-703 US-PATENT-3,526,897
N71-12243*	c 02	NASA-CASE-XLA-04451 US-PATENT-APPL-SN-457876 US-PATENT-CLASS-244-45 US-PATENT-3,310,262	N71-12505*	c 08	NASA-CASE-XNP-05415 US-PATENT-APPL-SN-578932	N71-13522*	c 09	NASA-CASE-LEV-10364-1 US-PATENT-APPL-SN-822518
N71-12255*	c 03	NASA-CASE-NPO-10404 US-PATENT-APPL-SN-728234						

		US-PATENT-CLASS-317-258				US-PATENT-CLASS-350-3.5				US-PATENT-CLASS-60-35.6
		US-PATENT-3,535,602				US-PATENT-3,535,013				US-PATENT-3,270,503
N71-13530*	c 09	NASA-CASE-XNP-00384	N71-15562*	c 25	NASA-CASE-XLA-03374	N71-15625*	c 33	NASA-CASE-XLE-01399		
		US-PATENT-APPL-SN-180392			US-PATENT-APPL-SN-793770			US-PATENT-APPL-SN-320233		
		US-PATENT-CLASS-324-132			US-PATENT-CLASS-315-111			US-PATENT-CLASS-13-26		
		US-PATENT-3,263,171			US-PATENT-3,535,586			US-PATENT-3,263,016		
N71-13531*	c 09	NASA-CASE-MSC-12033-1	N71-15563*	c 28	NASA-CASE-XLA-02865	N71-15634*	c 27	NASA-CASE-XLE-01988		
		US-PATENT-APPL-SN-602828			US-PATENT-APPL-SN-416946			US-PATENT-APPL-SN-308918		
		US-PATENT-CLASS-330-11			US-PATENT-CLASS-244-53			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,526,845			US-PATENT-3,270,990			US-PATENT-3,258,912		
N71-13537*	c 10	NASA-CASE-XNP-08274	N71-15565*	c 16	NASA-CASE-MFS-20074	N71-15635*	c 27	NASA-CASE-XLE-01182		
		US-PATENT-APPL-SN-730703			US-PATENT-APPL-SN-601312			US-PATENT-APPL-SN-411849		
		US-PATENT-CLASS-73-382			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-39.46		
		US-PATENT-3,520,190			US-PATENT-3,535,014			US-PATENT-3,258,918		
N71-13545*	c 10	NASA-CASE-LAR-10774	N71-15566*	c 31	NASA-CASE-XKS-08012-2	N71-15637*	c 31	NASA-CASE-XLE-01640		
		US-PATENT-APPL-SN-802820			US-PATENT-APPL-SN-874958			US-PATENT-APPL-SN-473535		
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,534,584			US-PATENT-3,535,683			US-PATENT-3,270,504		
N71-13789*	c 15	NASA-CASE-XLA-01141	N71-15567*	c 16	NASA-CASE-ERC-10017	N71-15641*	c 33	NASA-CASE-XNP-09802		
		US-PATENT-APPL-SN-353632			US-PATENT-APPL-SN-677506			US-PATENT-APPL-SN-673229		
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-73-190		
		US-PATENT-3,263,610			US-PATENT-3,535,012			US-PATENT-3,531,989		
N71-13958*	c 21	NASA-CASE-GSC-10087-2	N71-15568*	c 33	NASA-CASE-XLE-09475-1	N71-15642*	c 21	NASA-CASE-XGS-03431		
		US-PATENT-APPL-SN-701744			US-PATENT-APPL-SN-710945			US-PATENT-APPL-SN-588635		
		US-PATENT-CLASS-343-112			US-PATENT-CLASS-136-228			US-PATENT-CLASS-250-203		
		US-PATENT-3,495,260			US-PATENT-3,535,165			US-PATENT-3,488,504		
N71-14014*	c 18	NASA-CASE-GSC-10072	N71-15571*	c 15	NASA-CASE-XLA-07911	N71-15643*	c 31	NASA-CASE-NPO-10311		
		US-PATENT-APPL-SN-686296			US-PATENT-APPL-SN-660572			US-PATENT-APPL-SN-725475		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-33-207			US-PATENT-CLASS-73-116		
		US-PATENT-3,493,401			US-PATENT-3,492,739			US-PATENT-3,534,597		
N71-14032*	c 33	NASA-CASE-XLE-05913	N71-15582*	c 21	NASA-CASE-XLA-01163	N71-15644*	c 17	NASA-CASE-XLE-00726		
		US-PATENT-APPL-SN-551933			US-PATENT-APPL-SN-405632			US-PATENT-APPL-SN-355126		
		US-PATENT-CLASS-117-106			US-PATENT-CLASS-60-35.55			US-PATENT-CLASS-75-170		
		US-PATENT-3,490,939			US-PATENT-3,270,505			US-PATENT-3,271,140		
N71-14035*	c 33	NASA-CASE-XLE-03307	N71-15583*	c 21	NASA-CASE-XMF-01598	N71-15647*	c 31	NASA-CASE-XGS-01143		
		US-PATENT-APPL-SN-613979			US-PATENT-APPL-SN-333770			US-PATENT-APPL-SN-348781		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,490,718			US-PATENT-3,270,985			US-PATENT-3,270,501		
N71-14043*	c 28	NASA-CASE-XLE-01124	N71-15597*	c 15	NASA-CASE-XLE-08917	N71-15658*	c 28	NASA-CASE-XLE-00409		
		US-PATENT-APPL-SN-312269			US-PATENT-APPL-SN-662829			US-PATENT-APPL-SN-249539		
		US-PATENT-CLASS-60-35.5			US-PATENT-CLASS-113-116			US-PATENT-CLASS-29-157		
		US-PATENT-3,238,715			US-PATENT-3,490,405			US-PATENT-3,254,395		
N71-14044*	c 28	NASA-CASE-XGS-08729	N71-15598*	c 14	NASA-CASE-XAC-00812	N71-15659*	c 28	NASA-CASE-XLE-05689		
		US-PATENT-APPL-SN-667637			US-PATENT-APPL-SN-255132			US-PATENT-APPL-SN-491845		
		US-PATENT-CLASS-60-200			US-PATENT-CLASS-73-341			US-PATENT-CLASS-60-35.60		
		US-PATENT-3,490,235			US-PATENT-3,238,777			US-PATENT-3,254,487		
N71-14058*	c 28	NASA-CASE-MSC-12139-1	N71-15599*	c 14	NASA-CASE-XNP-04161	N71-15660*	c 28	NASA-CASE-XMF-00968		
		US-PATENT-APPL-SN-797796			US-PATENT-APPL-SN-568356			US-PATENT-APPL-SN-339825		
		US-PATENT-CLASS-103-37			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,492,947			US-PATENT-3,444,375			US-PATENT-3,270,499		
N71-14090*	c 27	NASA-CASE-LAR-10173-1	N71-15600*	c 14	NASA-CASE-XKS-06250	N71-15661*	c 28	NASA-CASE-XLE-02066		
		US-PATENT-APPL-SN-758942			US-PATENT-APPL-SN-649075			US-PATENT-APPL-SN-426455		
		US-PATENT-CLASS-149-19			US-PATENT-CLASS-73-97			US-PATENT-CLASS-60-35.5		
		US-PATENT-3,492,176			US-PATENT-3,492,862			US-PATENT-3,262,262		
N71-14132*	c 21	NASA-CASE-XLA-05464	N71-15604*	c 14	NASA-CASE-NPO-10337	N71-15663*	c 31	NASA-CASE-XLA-00256		
		US-PATENT-APPL-SN-656995			US-PATENT-APPL-SN-714296			US-PATENT-APPL-SN-333766		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-58			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,194			US-PATENT-3,488,103			US-PATENT-3,262,655		
N71-14159*	c 21	NASA-CASE-XGS-04393	N71-15605*	c 14	NASA-CASE-GSC-10062	N71-15664*	c 31	NASA-CASE-XLA-01332		
		US-PATENT-APPL-SN-700142			US-PATENT-APPL-SN-658955			US-PATENT-APPL-SN-250974		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-285			US-PATENT-CLASS-220-15		
		US-PATENT-3,490,719			US-PATENT-3,493,294			US-PATENT-3,270,908		
N71-14354*	c 26	NASA-CASE-ERC-10138	N71-15606*	c 15	NASA-CASE-XNP-06031	N71-15673*	c 23	NASA-CASE-XMS-01620		
		US-PATENT-APPL-SN-821586			US-PATENT-APPL-SN-590144			US-PATENT-APPL-SN-357340		
		US-PATENT-CLASS-225-2			US-PATENT-CLASS-250-52			US-PATENT-CLASS-248-358		
		US-PATENT-3,493,155			US-PATENT-3,493,746			US-PATENT-3,243,154		
N71-14932*	c 15	NASA-CASE-LEW-11531	N71-15607*	c 15	NASA-CASE-XMF-03287	N71-15674*	c 31	NASA-CASE-XLA-03691		
		US-PATENT-APPL-SN-643332			US-PATENT-APPL-SN-658956			US-PATENT-APPL-SN-667625		
		US-PATENT-CLASS-219-72			US-PATENT-CLASS-228-7			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,711			US-PATENT-3,443,732			US-PATENT-3,534,924		
N71-14996*	c 14	NASA-CASE-XLA-00936	N71-15608*	c 15	NASA-CASE-NPO-10117	N71-15675*	c 31	NASA-CASE-XMF-03169		
		US-PATENT-APPL-SN-282818			US-PATENT-APPL-SN-668238			US-PATENT-APPL-SN-375405		
		US-PATENT-CLASS-73-170			US-PATENT-CLASS-138-42			US-PATENT-CLASS-69-1.5		
		US-PATENT-3,238,774			US-PATENT-3,493,012			US-PATENT-3,262,365		
N71-15467*	c 23	NASA-CASE-XNP-03796	N71-15609*	c 15	NASA-CASE-XMF-04709	N71-15676*	c 31	NASA-CASE-XGS-05579		
		US-PATENT-APPL-SN-453231			US-PATENT-APPL-SN-683507			US-PATENT-APPL-SN-719869		
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-244-1		
		US-PATENT-3,260,055			US-PATENT-3,493,003			US-PATENT-3,534,925		
N71-15468*	c 17	NASA-CASE-LEW-10393-1	N71-15610*	c 15	NASA-CASE-XLE-01604-2	N71-15687*	c 31	NASA-CASE-XLA-05369		
		US-PATENT-APPL-SN-644799			US-PATENT-APPL-SN-683613			US-PATENT-APPL-SN-765123		
		US-PATENT-CLASS-75-202			US-PATENT-CLASS-117-50			US-PATENT-CLASS-102-49.5		
		US-PATENT-3,535,110			US-PATENT-3,493,415			US-PATENT-3,534,686		
N71-15469*	c 18	NASA-CASE-ARC-10099-1	N71-15620*	c 14	NASA-CASE-XLA-01926	N71-15688*	c 18	NASA-CASE-XNP-03459-2		
		US-PATENT-APPL-SN-704224			US-PATENT-APPL-SN-784521			US-PATENT-APPL-SN-681942		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-340-57			US-PATENT-CLASS-260-404.5		
		US-PATENT-3,535,130			US-PATENT-3,491,335			US-PATENT-3,535,352		
N71-15545*	c 18	NASA-CASE-XMS-09691-1	N71-15621*	c 14	NASA-CASE-XNP-09572	N71-15689*	c 31	NASA-CASE-MFS-14685		
		US-PATENT-APPL-SN-738119			US-PATENT-APPL-SN-660841			US-PATENT-APPL-SN-752947		
		US-PATENT-CLASS-8-94.12			US-PATENT-CLASS-35-10.2			US-PATENT-CLASS-180-118		
		US-PATENT-3,526,473			US-PATENT-3,493,665			US-PATENT-CLASS-180-121		
N71-15550*	c 16	NASA-CASE-XNP-05219	N71-15622*	c 14	NASA-CASE-XNP-04111	N71-15692*	c 31	NASA-CASE-XLA-01339		
		US-PATENT-APPL-SN-336103			US-PATENT-APPL-SN-560969			US-PATENT-APPL-SN-373591		
		US-PATENT-CLASS-330-4			US-PATENT-CLASS-350-213			US-PATENT-CLASS-102-49		
		US-PATENT-3,299,364			US-PATENT-3,493,291			US-PATENT-3,260,204		
N71-15551*	c 16	NASA-CASE-ERC-10019	N71-15623*	c 33	NASA-CASE-XMS-01816	N71-15871*	c 15	NASA-CASE-XMF-02039		
		US-PATENT-APPL-SN-677508			US-PATENT-APPL-SN-425364					

		US-PATENT-APPL-SN-434143			US-PATENT-APPL-SN-304749			US-PATENT-APPL-SN-701732
		US-PATENT-CLASS-219-131			US-PATENT-CLASS-35-29			US-PATENT-CLASS-250-41.9
		US-PATENT-3,271,558			US-PATENT-3,270,441			US-PATENT-3,532,880
N71-15906*	c 15	NASA-CASE-XNP-00920	N71-16030*	c 10	NASA-CASE-XMF-01096	N71-16098*	c 23	NASA-CASE-XAC-03107
		US-PATENT-APPL-SN-329331			US-PATENT-APPL-SN-307270			US-PATENT-APPL-SN-538168
		US-PATENT-CLASS-62-2			US-PATENT-CLASS-318-376			US-PATENT-CLASS-73-505
		US-PATENT-3,270,512			US-PATENT-3,271,649			US-PATENT-3,455,171
N71-15907*	c 07	NASA-CASE-XNP-01057	N71-16031*	c 12	NASA-CASE-XMS-01445	N71-16099*	c 23	NASA-CASE-XGS-07514
		US-PATENT-APPL-SN-301683			US-PATENT-APPL-SN-385526			US-PATENT-APPL-SN-640453
		US-PATENT-CLASS-343-786			US-PATENT-CLASS-137-615			US-PATENT-CLASS-328-1
		US-PATENT-3,305,870			US-PATENT-3,308,848			US-PATENT-3,509,469
N71-15908*	c 08	NASA-CASE-XLA-02705	N71-16037*	c 26	NASA-CASE-XGS-05718	N71-16100*	c 23	NASA-CASE-XGS-05715
		US-PATENT-APPL-SN-473537			US-PATENT-APPL-SN-584071			US-PATENT-APPL-SN-668257
		US-PATENT-CLASS-129-16.7			US-PATENT-CLASS-29-472.9			US-PATENT-CLASS-250-233
		US-PATENT-3,310,054			US-PATENT-3,452,423			US-PATENT-3,532,894
N71-15909*	c 10	NASA-CASE-XAC-03777	N71-16042*	c 10	NASA-CASE-XAC-00942	N71-16101*	c 23	NASA-CASE-XNP-08883
		US-PATENT-APPL-SN-484489			US-PATENT-APPL-SN-310506			US-PATENT-APPL-SN-617021
		US-PATENT-CLASS-200-6			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-356-117
		US-PATENT-3,283,088			US-PATENT-3,277,314			US-PATENT-3,520,617
N71-15910*	c 10	NASA-CASE-XGS-00823	N71-16044*	c 17	NASA-CASE-XGS-06306	N71-16102*	c 31	NASA-CASE-XGS-09190
		US-PATENT-APPL-SN-336607			US-PATENT-APPL-SN-685473			US-PATENT-APPL-SN-647298
		US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-156-3			US-PATENT-CLASS-343-915
		US-PATENT-3,283,175			US-PATENT-3,532,568			US-PATENT-3,521,290
N71-15918*	c 15	NASA-CASE-XMS-02383	N71-16046*	c 18	NASA-CASE-GSC-10007	N71-16103*	c 32	NASA-CASE-LAR-10317-1
		US-PATENT-APPL-SN-299042			US-PATENT-APPL-SN-627599			US-PATENT-APPL-SN-739927
		US-PATENT-CLASS-140-123			US-PATENT-CLASS-117-201			US-PATENT-CLASS-137-582
		US-PATENT-3,299,913			US-PATENT-3,532,538			US-PATENT-3,508,578
N71-15922*	c 15	NASA-CASE-XGS-01971	N71-16052*	c 15	NASA-CASE-XLE-02999	N71-16104*	c 33	NASA-CASE-XLE-00785
		US-PATENT-APPL-SN-353645			US-PATENT-APPL-SN-431235			US-PATENT-APPL-SN-666554
		US-PATENT-CLASS-85-33			US-PATENT-CLASS-29-148.4			US-PATENT-CLASS-60-108
		US-PATENT-3,262,351			US-PATENT-3,262,186			US-PATENT-3,508,402
N71-15925*	c 11	NASA-CASE-XLA-00378	N71-16057*	c 10	NASA-CASE-XNP-01193	N71-16105*	c 18	NASA-CASE-XLE-08511-2
		US-PATENT-APPL-SN-266107			US-PATENT-APPL-SN-366226			US-PATENT-APPL-SN-711921
		US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-324-57			US-PATENT-CLASS-117-119
		US-PATENT-3,238,345			US-PATENT-3,277,366			US-PATENT-3,508,955
N71-15926*	c 11	NASA-CASE-XLA-00939	N71-16058*	c 10	NASA-CASE-XMF-01097	N71-16106*	c 32	NASA-CASE-XLA-04605
		US-PATENT-APPL-SN-309354			US-PATENT-APPL-SN-290873			US-PATENT-APPL-SN-619519
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-340-227			US-PATENT-CLASS-137-582
		US-PATENT-3,276,251			US-PATENT-3,277,458			US-PATENT-3,443,584
N71-15960*	c 11	NASA-CASE-XAC-00731	N71-16073*	c 25	NASA-CASE-XAC-05695	N71-16124*	c 18	NASA-CASE-XMF-05279
		US-PATENT-APPL-SN-232318			US-PATENT-APPL-SN-634038			US-PATENT-APPL-SN-617774
		US-PATENT-CLASS-220-89			US-PATENT-CLASS-324-34			US-PATENT-CLASS-106-88
		US-PATENT-3,145,874			US-PATENT-3,517,302			US-PATENT-3,508,940
N71-15962*	c 14	NASA-CASE-XGS-01587	N71-16075*	c 15	NASA-CASE-XLA-00284	N71-16210*	c 18	NASA-CASE-XNP-08837
		US-PATENT-APPL-SN-298799			US-PATENT-APPL-SN-240760			US-PATENT-APPL-SN-691736
		US-PATENT-CLASS-324-43			US-PATENT-CLASS-117-69			US-PATENT-CLASS-204-20
		US-PATENT-3,258,687			US-PATENT-3,264,135			US-PATENT-3,526,580
N71-15966*	c 15	NASA-CASE-XLE-00953	N71-16076*	c 15	NASA-CASE-XLE-00106	N71-16212*	c 23	NASA-CASE-NPO-10250
		US-PATENT-APPL-SN-336320			US-PATENT-APPL-SN-629759			US-PATENT-APPL-SN-736848
		US-PATENT-CLASS-22-200			US-PATENT-CLASS-25-156			US-PATENT-CLASS-149-1
		US-PATENT-3,237,253			US-PATENT-2,944,316			US-PATENT-3,516,879
N71-15967*	c 15	NASA-CASE-XLE-00703	N71-16077*	c 15	NASA-CASE-XLA-00302	N71-16213*	c 24	NASA-CASE-XGS-06628
		US-PATENT-APPL-SN-271822			US-PATENT-APPL-SN-284266			US-PATENT-APPL-SN-665860
		US-PATENT-CLASS-137-13			US-PATENT-CLASS-117-46			US-PATENT-CLASS-315-111
		US-PATENT-3,270,756			US-PATENT-3,271,181			US-PATENT-3,509,419
N71-15968*	c 15	NASA-CASE-XLE-00586	N71-16078*	c 15	NASA-CASE-XGS-00824	N71-16221*	c 31	NASA-CASE-XLA-05906
		US-PATENT-APPL-SN-317391			US-PATENT-APPL-SN-379072			US-PATENT-APPL-SN-777766
		US-PATENT-CLASS-55-160			US-PATENT-CLASS-89-1			US-PATENT-CLASS-73-432
		US-PATENT-3,257,780			US-PATENT-3,309,961			US-PATENT-3,526,139
N71-15969*	c 14	NASA-CASE-XMF-01099	N71-16079*	c 15	NASA-CASE-XLA-00415	N71-16222*	c 31	NASA-CASE-MFS-11133
		US-PATENT-APPL-SN-73367			US-PATENT-APPL-SN-314074			US-PATENT-APPL-SN-693419
		US-PATENT-CLASS-73-517			US-PATENT-CLASS-233-11			US-PATENT-CLASS-244-1
		US-PATENT-3,261,210			US-PATENT-3,276,679			US-PATENT-3,508,723
N71-15974*	c 32	NASA-CASE-XMS-06782	N71-16080*	c 31	NASA-CASE-MSC-12049	N71-16223*	c 27	NASA-CASE-MFS-12750
		US-PATENT-APPL-SN-691739			US-PATENT-APPL-SN-693420			US-PATENT-APPL-SN-806149
		US-PATENT-CLASS-338-5			US-PATENT-CLASS-52-3			US-PATENT-CLASS-73-432
		US-PATENT-3,464,049			US-PATENT-3,465,482			US-PATENT-3,526,140
N71-15978*	c 23	NASA-CASE-XGS-00373	N71-16081*	c 31	NASA-CASE-XGS-03351	N71-16224*	c 28	NASA-CASE-MFS-11497
		US-PATENT-APPL-SN-105518			US-PATENT-APPL-SN-472747			US-PATENT-APPL-SN-730733
		US-PATENT-CLASS-161-189			US-PATENT-CLASS-244-31			US-PATENT-CLASS-239-265.43
		US-PATENT-3,276,946			US-PATENT-3,276,726			US-PATENT-3,526,365
N71-15986*	c 15	NASA-CASE-XMF-03498	N71-16085*	c 31	NASA-CASE-XLA-09881	N71-16277*	c 33	NASA-CASE-XMS-04268
		US-PATENT-APPL-SN-396443			US-PATENT-APPL-SN-710562			US-PATENT-APPL-SN-516160
		US-PATENT-CLASS-29-155.55			US-PATENT-CLASS-244-138			US-PATENT-CLASS-165-133
		US-PATENT-3,258,831			US-PATENT-3,520,503			US-PATENT-3,502,141
N71-15990*	c 30	NASA-CASE-XAC-08494	N71-16086*	c 09	NASA-CASE-XLE-02038	N71-16278*	c 33	NASA-CASE-XMF-04237
		US-PATENT-APPL-SN-690998			US-PATENT-APPL-SN-349782			US-PATENT-APPL-SN-539237
		US-PATENT-CLASS-356-74			US-PATENT-CLASS-73-147			US-PATENT-CLASS-219-364
		US-PATENT-3,532,428			US-PATENT-3,273,388			US-PATENT-3,517,162
N71-15992*	c 14	NASA-CASE-XGS-01052	N71-16087*	c 02	NASA-CASE-XAC-02058	N71-16281*	c 20	NASA-CASE-XLA-02081
		US-PATENT-APPL-SN-314572			US-PATENT-APPL-SN-342572			US-PATENT-APPL-SN-522795
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-189
		US-PATENT-3,242,716			US-PATENT-3,276,722			US-PATENT-3,507,150
N71-16014*	c 14	NASA-CASE-XLE-00820	N71-16088*	c 07	NASA-CASE-XGS-01022	N71-16340*	c 20	NASA-CASE-XMF-14032
		US-PATENT-APPL-SN-228569			US-PATENT-APPL-SN-331323			US-PATENT-APPL-SN-679862
		US-PATENT-CLASS-324-32			US-PATENT-CLASS-325-4			US-PATENT-CLASS-250-209
		US-PATENT-3,283,241			US-PATENT-3,277,373			US-PATENT-3,501,641
N71-16025*	c 17	NASA-CASE-XLE-02991	N71-16089*	c 09	NASA-CASE-XAC-02405	N71-16341*	c 23	NASA-CASE-XGS-05291
		US-PATENT-APPL-SN-375401			US-PATENT-APPL-SN-433821			US-PATENT-APPL-SN-553891
		US-PATENT-CLASS-75-170			US-PATENT-CLASS-200-6			US-PATENT-CLASS-356-209
		US-PATENT-3,276,865			US-PATENT-3,271,532			US-PATENT-3,504,983
N71-16026*	c 17	NASA-CASE-XLE-02082	N71-16090*	c 30	NASA-CASE-GSC-10083-1	N71-16345*	c 31	NASA-CASE-XMF-05344
		US-PATENT-APPL-SN-360180			US-PATENT-APPL-SN-641431			US-PATENT-APPL-SN-702396
		US-PATENT-CLASS-75-171			US-PATENT-CLASS-343-6			US-PATENT-CLASS-244-1
		US-PATENT-3,276,866			US-PATENT-3,471,856			US-PATENT-3,520,496
N71-16028*	c 11	NASA-CASE-XLA-01787	N71-16095*	c 24	NASA-CASE-XAC-05506-1	N71-16346*	c 31	NASA-CASE-XMS-03613

		US-PATENT-APPL-SN-802816			US-PATENT-APPL-SN-270118	N71-17685*	c 15	NASA-CASE-NPO-10034
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-230-162			US-PATENT-APPL-SN-668241
		US-PATENT-3,526,372			US-PATENT-3,309,012			US-PATENT-CLASS-339-17
N71-16348*	c 27	NASA-CASE-MSC-12280	N71-17626*	c 14	NASA-CASE-LAR-10274-1	N71-17686*	c 15	US-PATENT-3,464,051
		US-PATENT-APPL-SN-372648			US-PATENT-APPL-SN-717052			NASA-CASE-MFS-20586
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-188-1			US-PATENT-APPL-SN-688868
N71-16355*	c 23	US-PATENT-3,501,632	N71-17627*	c 14	US-PATENT-3,491,857			US-PATENT-CLASS-29-428
		NASA-CASE-XGS-05534			NASA-CASE-XGS-03532			US-PATENT-3,526,030
		US-PATENT-APPL-SN-578925			US-PATENT-APPL-SN-538913	N71-17687*	c 15	NASA-CASE-XLA-04143
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-356-106			US-PATENT-APPL-SN-628246
		US-PATENT-3,520,660			US-PATENT-3,488,123			US-PATENT-CLASS-156-510
N71-16356*	c 33	NASA-CASE-NPO-10158	N71-17628*	c 15	NASA-CASE-MFS-10340			US-PATENT-3,508,999
		US-PATENT-APPL-SN-730702			US-PATENT-APPL-SN-716734	N71-17688*	c 15	NASA-CASE-XLE-09527
		US-PATENT-CLASS-73-343			US-PATENT-CLASS-225-1			US-PATENT-APPL-SN-686344
		US-PATENT-3,526,134			US-PATENT-3,507,425			US-PATENT-CLASS-29-148.4
N71-16357*	c 33	NASA-CASE-NPO-10138	N71-17629*	c 31	NASA-CASE-XLE-03583			US-PATENT-3,500,525
		US-PATENT-APPL-SN-759457			US-PATENT-APPL-SN-400617	N71-17691*	c 31	NASA-CASE-XLA-00937
		US-PATENT-CLASS-236-1			US-PATENT-CLASS-244-3.22			US-PATENT-APPL-SN-393461
		US-PATENT-3,526,359			US-PATENT-3,276,376			US-PATENT-CLASS-244-3.14
N71-16365*	c 23	NASA-CASE-XNP-08840	N71-17631*	c 12	NASA-CASE-NPO-10122			US-PATENT-3,310,258
		US-PATENT-APPL-SN-649360			US-PATENT-APPL-SN-710949	N71-17692*	c 15	NASA-CASE-MFS-14772
		US-PATENT-CLASS-356-36			US-PATENT-CLASS-60-217			US-PATENT-APPL-SN-774151
		US-PATENT-3,526,460			US-PATENT-3,534,555			US-PATENT-CLASS-74-63
N71-16392*	c 27	NASA-CASE-XNP-09744	N71-17645*	c 32	NASA-CASE-XNP-01153			US-PATENT-3,529,480
		US-PATENT-APPL-SN-685750			US-PATENT-APPL-SN-336608	N71-17693*	c 15	NASA-CASE-NPO-10064
		US-PATENT-CLASS-60-39.47			US-PATENT-CLASS-73-88			US-PATENT-APPL-SN-668755
		US-PATENT-3,507,114			US-PATENT-3,273,381			US-PATENT-CLASS-244-1
N71-16393*	c 17	NASA-CASE-NPO-10271	N71-17647*	c 15	NASA-CASE-XMF-01667	N71-17694*	c 15	US-PATENT-3,501,112
		US-PATENT-APPL-SN-763869			US-PATENT-APPL-SN-577115			NASA-CASE-XNP-08897
		US-PATENT-CLASS-21-207			US-PATENT-CLASS-118-11			US-PATENT-APPL-SN-640450
		US-PATENT-3,529,928			US-PATENT-3,502,051			US-PATENT-CLASS-318-22
N71-16428*	c 32	NASA-CASE-XLA-03135	N71-17648*	c 15	NASA-CASE-MSC-12116-1			US-PATENT-3,501,683
		US-PATENT-APPL-SN-582171			US-PATENT-APPL-SN-768336	N71-17696*	c 15	NASA-CASE-XLA-05100
		US-PATENT-CLASS-73-71.4			US-PATENT-CLASS-251-358			US-PATENT-APPL-SN-724551
		US-PATENT-3,503,251			US-PATENT-3,508,739			US-PATENT-CLASS-73-103
N71-16894*	c 12	NASA-CASE-XLA-02079	N71-17649*	c 15	NASA-CASE-MFS-11132			US-PATENT-3,487,680
		US-PATENT-APPL-SN-435756			US-PATENT-APPL-SN-744910	N71-17701*	c 14	NASA-CASE-NPO-10144
		US-PATENT-CLASS-188-87			US-PATENT-CLASS-248-360			US-PATENT-APPL-SN-688805
		US-PATENT-3,310,138			US-PATENT-3,526,382			US-PATENT-CLASS-73-29
N71-17569*	c 12	NASA-CASE-MSC-12084-1	N71-17650*	c 15	NASA-CASE-XMF-05114	N71-17705*	c 06	US-PATENT-3,534,585
		US-PATENT-APPL-SN-762438			US-PATENT-APPL-SN-637882			NASA-CASE-XGS-05532
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-29-517			US-PATENT-APPL-SN-570093
		US-PATENT-3,500,686			US-PATENT-3,507,034			US-PATENT-CLASS-195-99
N71-17573*	c 12	NASA-CASE-LAR-10323-1	N71-17651*	c 15	NASA-CASE-XLE-03803-2			US-PATENT-3,423,290
		US-PATENT-APPL-SN-738314			US-PATENT-APPL-SN-669336	N71-17729*	c 31	NASA-CASE-XAC-01591
		US-PATENT-CLASS-73-45.5			US-PATENT-CLASS-156-172			US-PATENT-APPL-SN-385527
		US-PATENT-3,516,284			US-PATENT-3,535,179			US-PATENT-CLASS-244-1
N71-17574*	c 14	NASA-CASE-XGS-04993	N71-17652*	c 15	NASA-CASE-XLE-05079	N71-17730*	c 31	US-PATENT-3,282,532
		US-PATENT-APPL-SN-577775			US-PATENT-APPL-SN-601228			NASA-CASE-XMF-01543
		US-PATENT-CLASS-96-49			US-PATENT-CLASS-310-93			US-PATENT-APPL-SN-402365
		US-PATENT-3,458,313			US-PATENT-3,493,797			US-PATENT-CLASS-102-49
N71-17575*	c 14	NASA-CASE-XMF-06531	N71-17653*	c 15	NASA-CASE-ARC-10140-1			US-PATENT-3,286,629
		US-PATENT-APPL-SN-732917			US-PATENT-APPL-SN-783379	N71-17788*	c 30	NASA-CASE-XGS-00783
		US-PATENT-CLASS-204-195			US-PATENT-CLASS-24-211			US-PATENT-APPL-SN-372438
		US-PATENT-3,509,034			US-PATENT-CLASS-85-3			US-PATENT-CLASS-73-432
N71-17578*	c 12	NASA-CASE-MFS-10412			US-PATENT-3,534,650	N71-17802*	c 23	US-PATENT-3,286,531
		US-PATENT-APPL-SN-701635	N71-17654*	c 15	NASA-CASE-XNP-09702			NASA-CASE-XLE-00454
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-730734			US-PATENT-APPL-SN-295855
		US-PATENT-3,520,317			US-PATENT-CLASS-239-416			US-PATENT-CLASS-73-295
N71-17579*	c 12	NASA-CASE-XLA-07391			US-PATENT-3,534,909			US-PATENT-3,273,392
		US-PATENT-APPL-SN-726898	N71-17655*	c 14	NASA-CASE-NPO-10320	N71-17803*	c 15	NASA-CASE-XMS-05516
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-718689			US-PATENT-APPL-SN-563648
		US-PATENT-3,493,004			US-PATENT-CLASS-356-106			US-PATENT-CLASS-264-92
N71-17584*	c 14	NASA-CASE-XNP-09462			US-PATENT-3,535,041			US-PATENT-3,488,414
		US-PATENT-APPL-SN-658957	N71-17656*	c 14	NASA-CASE-MFS-12827	N71-17805*	c 15	NASA-CASE-MFS-12805
		US-PATENT-CLASS-73-57			US-PATENT-APPL-SN-742816			US-PATENT-APPL-SN-758082
		US-PATENT-3,500,677			US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-192-43.1
N71-17585*	c 14	NASA-CASE-XGS-05680			US-PATENT-3,534,592			US-PATENT-CLASS-81-63.1
		US-PATENT-APPL-SN-656953	N71-17657*	c 14	NASA-CASE-XNP-09205			US-PATENT-3,534,836
		US-PATENT-CLASS-318-138			US-PATENT-APPL-SN-768473	N71-17818*	c 26	NASA-CASE-XMF-01016
		US-PATENT-3,501,664			US-PATENT-CLASS-33-149			US-PATENT-APPL-SN-326299
N71-17586*	c 14	NASA-CASE-XLA-08646			US-PATENT-3,534,479			US-PATENT-CLASS-264-27
		US-PATENT-APPL-SN-677476	N71-17658*	c 14	NASA-CASE-XMF-04966			US-PATENT-3,274,304
		US-PATENT-CLASS-73-105			US-PATENT-APPL-SN-727480	N71-17822*	c 15	NASA-CASE-ARC-10009-1
		US-PATENT-3,534,596			US-PATENT-CLASS-33-174			US-PATENT-APPL-SN-714595
N71-17587*	c 14	NASA-CASE-XMF-05844			US-PATENT-3,534,480			US-PATENT-CLASS-324-58.5
		US-PATENT-APPL-SN-706564	N71-17659*	c 14	NASA-CASE-XMF-02964			US-PATENT-3,532,973
		US-PATENT-CLASS-73-382			US-PATENT-APPL-SN-483942	N71-17897*	c 33	NASA-CASE-XLA-00892
		US-PATENT-3,500,688			US-PATENT-CLASS-73-15.4			US-PATENT-APPL-SN-245941
N71-17588*	c 14	NASA-CASE-MFS-12806			US-PATENT-3,465,569			US-PATENT-CLASS-62-467
		US-PATENT-APPL-SN-686933	N71-17661*	c 12	NASA-CASE-NPO-10298			US-PATENT-3,273,355
		US-PATENT-CLASS-55-179			US-PATENT-APPL-SN-745852	N71-18064*	c 26	NASA-CASE-XNP-01328
		US-PATENT-3,490,205			US-PATENT-CLASS-137-341			US-PATENT-APPL-SN-296879
N71-17599*	c 05	NASA-CASE-MSC-12206-1			US-PATENT-3,534,765			US-PATENT-CLASS-317-234
		US-PATENT-APPL-SN-856258	N71-17662*	c 14	NASA-CASE-NPO-10300			US-PATENT-3,271,637
		US-PATENT-CLASS-128-142.5			US-PATENT-APPL-SN-718769	N71-18132*	c 15	NASA-CASE-MFS-13686
		US-PATENT-3,516,404			US-PATENT-CLASS-350-285			US-PATENT-APPL-SN-716183
N71-17600*	c 11	NASA-CASE-MFS-12915			US-PATENT-3,535,024			US-PATENT-CLASS-73-67.2
		US-PATENT-APPL-SN-694340	N71-17679*	c 31	NASA-CASE-XNP-02507			US-PATENT-3,531,982
		US-PATENT-CLASS-220-89			US-PATENT-APPL-SN-475299	N71-18465*	c 14	NASA-CASE-NPO-10174
		US-PATENT-3,469,734			US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-690163
N71-17609*	c 32	NASA-CASE-XLA-02332			US-PATENT-3,310,256			US-PATENT-CLASS-95-11
		US-PATENT-APPL-SN-388024	N71-17680*	c 31	NASA-CASE-XLA-00117			US-PATENT-3,520,238
		US-PATENT-CLASS-212-11			US-PATENT-APPL-SN-835153	N71-18481*	c 14	NASA-CASE-XLA-02758
		US-PATENT-3,276,602			US-PATENT-CLASS-220-1			US-PATENT-APPL-SN-759665
N71-17610*	c 33	NASA-CASE-XLA-00377			US-PATENT-2,996,212			US-PATENT-CLASS-73-4

N71-18482*	c 14	US-PATENT-3,531,978 NASA-CASE-XLA-07424 US-PATENT-APPL-SN-635326 US-PATENT-CLASS-313-7 US-PATENT-3,466,484	N71-18699*	c 14	US-PATENT-3,507,706 NASA-CASE-XLA-03273 US-PATENT-APPL-SN-487352 US-PATENT-CLASS-250-83.3 US-PATENT-3,458,702	N71-19433*	c 07	US-PATENT-3,517,318 NASA-CASE-MFS-13046 US-PATENT-APPL-SN-673228 US-PATENT-CLASS-178-6 US-PATENT-3,532,807
N71-18483*	c 14	NASA-CASE-XER-09519 US-PATENT-APPL-SN-676375 US-PATENT-CLASS-55-208 US-PATENT-3,469,375	N71-18701*	c 15	NASA-CASE-XMF-07587 US-PATENT-APPL-SN-649359 US-PATENT-CLASS-317-122 US-PATENT-3,448,346	N71-19435*	c 08	NASA-CASE-XGS-02612 US-PATENT-APPL-SN-502743 US-PATENT-CLASS-340-347 US-PATENT-3,509,558
N71-18578*	c 11	NASA-CASE-XAC-05902 US-PATENT-APPL-SN-662828 US-PATENT-CLASS-89-8 US-PATENT-3,465,638	N71-18720*	c 09	NASA-CASE-MS-12101 US-PATENT-APPL-SN-763705 US-PATENT-CLASS-343-718 US-PATENT-3,509,570	N71-19436*	c 07	NASA-CASE-XMF-09422 US-PATENT-APPL-SN-783378 US-PATENT-CLASS-174-35 US-PATENT-3,517,109
N71-18579*	c 15	NASA-CASE-XGS-04175 US-PATENT-APPL-SN-606464 US-PATENT-CLASS-72-364 US-PATENT-3,465,567	N71-18721*	c 09	NASA-CASE-XER-07894 US-PATENT-APPL-SN-644444 US-PATENT-CLASS-331-107 US-PATENT-3,509,491	N71-19437*	c 08	NASA-CASE-XGS-04768 US-PATENT-APPL-SN-598119 US-PATENT-CLASS-235-158 US-PATENT-3,508,039
N71-18580*	c 15	NASA-CASE-XNP-09698 US-PATENT-APPL-SN-698592 US-PATENT-CLASS-138-4 US-PATENT-CLASS-138-45 US-PATENT-CLASS-251-118 US-PATENT-CLASS-251-121 US-PATENT-3,532,128	N71-18722*	c 10	NASA-CASE-ERC-10046 US-PATENT-APPL-SN-793772 US-PATENT-CLASS-343-100 US-PATENT-3,501,764	N71-19438*	c 03	NASA-CASE-XGS-05432 US-PATENT-APPL-SN-549860 US-PATENT-CLASS-320-23 US-PATENT-3,426,263
N71-18594*	c 08	NASA-CASE-XAC-04031 US-PATENT-APPL-SN-538905 US-PATENT-CLASS-340-347 US-PATENT-3,533,098	N71-18723*	c 10	NASA-CASE-XNP-09450 US-PATENT-APPL-SN-640459 US-PATENT-CLASS-307-273 US-PATENT-3,501,649	N71-19439*	c 05	NASA-CASE-XMS-09571 US-PATENT-APPL-SN-678700 US-PATENT-CLASS-165-46 US-PATENT-3,425,487
N71-18595*	c 08	NASA-CASE-XGS-03303 US-PATENT-APPL-SN-520838 US-PATENT-CLASS-340-174 US-PATENT-3,501,752	N71-18751*	c 08	NASA-CASE-XLA-07732 US-PATENT-APPL-SN-641441 US-PATENT-CLASS-307-216 US-PATENT-3,512,009	N71-19449*	c 09	NASA-CASE-XFR-03107 US-PATENT-APPL-SN-507257 US-PATENT-CLASS-178-6 US-PATENT-3,458,651
N71-18598*	c 09	NASA-CASE-NPO-10066 US-PATENT-APPL-SN-681693 US-PATENT-CLASS-343-13 US-PATENT-3,447,155	N71-18752*	c 08	NASA-CASE-XMF-00663 US-PATENT-APPL-SN-205470 US-PATENT-CLASS-321-5 US-PATENT-3,521,143	N71-19466*	c 09	NASA-CASE-XGS-02812 US-PATENT-APPL-SN-502750 US-PATENT-CLASS-330-30 US-PATENT-3,466,560
N71-18599*	c 09	NASA-CASE-LAR-10372 US-PATENT-APPL-SN-730162 US-PATENT-CLASS-102-70.2 US-PATENT-3,500,747	N71-18772*	c 10	NASA-CASE-GSC-10366-1 US-PATENT-APPL-SN-771523 US-PATENT-CLASS-318-138 US-PATENT-3,532,948	N71-19467*	c 10	NASA-CASE-XMF-08665 US-PATENT-APPL-SN-582609 US-PATENT-CLASS-325-63 US-PATENT-3,470,475
N71-18600*	c 09	NASA-CASE-MS-12168-1 US-PATENT-APPL-SN-640154 US-PATENT-CLASS-312-296 US-PATENT-3,447,850	N71-18773*	c 11	NASA-CASE-XMF-07488 US-PATENT-APPL-SN-707495 US-PATENT-CLASS-35-12 US-PATENT-3,534,485	N71-19468*	c 10	NASA-CASE-XMS-05605-1 US-PATENT-APPL-SN-764812 US-PATENT-CLASS-178-69.5 US-PATENT-3,532,819
N71-18602*	c 08	NASA-CASE-XGS-04766 US-PATENT-APPL-SN-598120 US-PATENT-CLASS-235-175 US-PATENT-3,532,866	N71-18830*	c 09	NASA-CASE-XAC-10768 US-PATENT-APPL-SN-711970 US-PATENT-CLASS-250-83 US-PATENT-3,508,053	N71-19469*	c 10	NASA-CASE-XNP-00777 US-PATENT-APPL-SN-486573 US-PATENT-CLASS-329-122 US-PATENT-3,517,268
N71-18603*	c 12	NASA-CASE-ERC-10031 US-PATENT-APPL-SN-741461 US-PATENT-CLASS-40-28 US-PATENT-3,516,185	N71-18843*	c 09	NASA-CASE-XNP-03263 US-PATENT-APPL-SN-506908 US-PATENT-CLASS-340-146.1 US-PATENT-3,501,743	N71-19470*	c 09	NASA-CASE-XGS-05289 US-PATENT-APPL-SN-632104 US-PATENT-CLASS-331-113 US-PATENT-3,470,496
N71-18611*	c 31	NASA-CASE-MFS-20400 US-PATENT-APPL-SN-551694 US-PATENT-CLASS-152-11 US-PATENT-3,493,027	N71-19212*	c 21	NASA-CASE-MFS-20386 US-PATENT-APPL-SN-818349 US-PATENT-CLASS-356-28 US-PATENT-3,532,427	N71-19471*	c 10	NASA-CASE-XLE-03804 US-PATENT-APPL-SN-526631 US-PATENT-CLASS-307-235 US-PATENT-3,463,939
N71-18613*	c 15	NASA-CASE-XNP-02588 US-PATENT-APPL-SN-563644 US-PATENT-CLASS-219-91 US-PATENT-3,466,418	N71-19213*	c 15	NASA-CASE-MFS-14259 US-PATENT-APPL-SN-787410 US-PATENT-CLASS-138-43 US-PATENT-3,536,103	N71-19472*	c 10	NASA-CASE-XAC-04030 US-PATENT-APPL-SN-520839 US-PATENT-CLASS-328-1 US-PATENT-3,464,016
N71-18614*	c 16	NASA-CASE-XGS-03644 US-PATENT-APPL-SN-505320 US-PATENT-CLASS-331-94.5 US-PATENT-3,517,328	N71-19214*	c 15	NASA-CASE-MFS-20410 US-PATENT-APPL-SN-819599 US-PATENT-CLASS-244-1 US-PATENT-3,534,926	N71-19479*	c 09	NASA-CASE-XMS-04300 US-PATENT-APPL-SN-516158 US-PATENT-CLASS-350-275 US-PATENT-3,427,093
N71-18615*	c 12	NASA-CASE-XNP-09704 US-PATENT-APPL-SN-730701 US-PATENT-CLASS-137-594 US-PATENT-CLASS-138-46 US-PATENT-CLASS-251-127 US-PATENT-CLASS-251-333 US-PATENT-CLASS-251-342 US-PATENT-CLASS-251-61.1 US-PATENT-3,531,964	N71-19287*	c 02	NASA-CASE-GSC-10087-1 US-PATENT-APPL-SN-701679 US-PATENT-CLASS-343-112 US-PATENT-3,534,367	N71-19480*	c 09	NASA-CASE-XFR-05637 US-PATENT-APPL-SN-484855 US-PATENT-CLASS-235-194 US-PATENT-3,423,579
N71-18616*	c 15	NASA-CASE-XLA-07390 US-PATENT-APPL-SN-665681 US-PATENT-CLASS-72-53 US-PATENT-3,531,964	N71-19288*	c 08	NASA-CASE-NPO-10068 US-PATENT-APPL-SN-668969 US-PATENT-CLASS-340-172.5 US-PATENT-3,501,750	N71-19485*	c 15	NASA-CASE-MS-11010 US-PATENT-APPL-SN-605090 US-PATENT-CLASS-251-31 US-PATENT-3,447,774
N71-18616*	c 15	NASA-CASE-XLA-07390 US-PATENT-APPL-SN-665681 US-PATENT-CLASS-72-53 US-PATENT-3,531,964	N71-19417*	c 10	NASA-CASE-XMS-10984-1 US-PATENT-APPL-SN-605095 US-PATENT-CLASS-340-213.1 US-PATENT-3,533,093	N71-19486*	c 15	NASA-CASE-XMF-08522 US-PATENT-APPL-SN-640447 US-PATENT-CLASS-219-121 US-PATENT-3,474,220
N71-18625*	c 14	NASA-CASE-NPO-10175 US-PATENT-APPL-SN-685787 US-PATENT-CLASS-137-505.12 US-PATENT-3,443,583	N71-19418*	c 10	NASA-CASE-GSC-10041-1 US-PATENT-APPL-SN-684209 US-PATENT-CLASS-331-113 US-PATENT-3,458,833	N71-19489*	c 15	NASA-CASE-XMF-04680 US-PATENT-APPL-SN-634040 US-PATENT-CLASS-33-147 US-PATENT-3,425,131
N71-18692*	c 08	NASA-CASE-MFS-14322 US-PATENT-APPL-SN-646934 US-PATENT-CLASS-328-134 US-PATENT-3,501,701	N71-19420*	c 08	NASA-CASE-XNP-09453 US-PATENT-APPL-SN-640448 US-PATENT-CLASS-226-190 US-PATENT-3,507,436	N71-19493*	c 07	NASA-CASE-XKS-08485 US-PATENT-APPL-SN-649078 US-PATENT-CLASS-343-873 US-PATENT-3,509,578
N71-18693*	c 08	NASA-CASE-XGS-04765 US-PATENT-APPL-SN-577545 US-PATENT-CLASS-235-156 US-PATENT-3,508,036	N71-19421*	c 10	NASA-CASE-XLA-08493 US-PATENT-APPL-SN-749148 US-PATENT-CLASS-324-72 US-PATENT-3,532,975	N71-19494*	c 11	NASA-CASE-MFS-10555 US-PATENT-APPL-SN-700984 US-PATENT-CLASS-35-12 US-PATENT-3,516,179
N71-18694*	c 08	NASA-CASE-NPO-10201 US-PATENT-APPL-SN-691738 US-PATENT-CLASS-340-174 US-PATENT-3,509,551	N71-19431*	c 14	NASA-CASE-XGS-02439 US-PATENT-APPL-SN-487341 US-PATENT-CLASS-324-120 US-PATENT-3,422,352	N71-19516*	c 09	NASA-CASE-XNP-06937 US-PATENT-APPL-SN-640449 US-PATENT-CLASS-330-30 US-PATENT-3,501,712
N71-18698*	c 03	NASA-CASE-NPO-10373 US-PATENT-APPL-SN-718752 US-PATENT-CLASS-136-89	N71-19432*	c 08	NASA-CASE-XGS-02440 US-PATENT-APPL-SN-655677 US-PATENT-CLASS-328-42	N71-19544*	c 08	NASA-CASE-XGS-01230 US-PATENT-APPL-SN-356488 US-PATENT-CLASS-340-34

N71-19545*	c 03	US-PATENT-3,474,441 NASA-CASE-NPO-10821 US-PATENT-APPL-SN-670814 US-PATENT-CLASS-136-89 US-PATENT-3,466,188	N71-20439*	c 14	US-PATENT-3,461,721 NASA-CASE-XAC-04886-1 US-PATENT-APPL-SN-574290 US-PATENT-CLASS-73-142 US-PATENT-3,425,272	N71-20742*	c 18	US-PATENT-3,360,980 NASA-CASE-XMS-02952 US-PATENT-APPL-SN-519160 US-PATENT-CLASS-55-158 US-PATENT-3,355,861
N71-19547*	c 10	NASA-CASE-XGS-03058 US-PATENT-APPL-SN-568987 US-PATENT-CLASS-307-289 US-PATENT-3,517,221	N71-20440*	c 15	NASA-CASE-XNP-09770 US-PATENT-APPL-SN-700120 US-PATENT-CLASS-209-10 US-PATENT-3,472,372	N71-20743*	c 17	NASA-CASE-XMF-02786 US-PATENT-APPL-SN-466873 US-PATENT-CLASS-75-142 US-PATENT-3,347,665
N71-19568*	c 14	NASA-CASE-MSC-10966 US-PATENT-APPL-SN-665676 US-PATENT-CLASS-250-203 US-PATENT-3,421,004	N71-20441*	c 15	NASA-CASE-XMS-06329-1 US-PATENT-APPL-SN-688742 US-PATENT-CLASS-73-141 US-PATENT-3,472,069	N71-20747*	c 25	NASA-CASE-XLE-02578 US-PATENT-APPL-SN-469012 US-PATENT-CLASS-313-271 US-PATENT-3,356,885
N71-19569*	c 15	NASA-CASE-XLA-05749 US-PATENT-APPL-SN-621714 US-PATENT-CLASS-137-582 US-PATENT-3,426,791	N71-20442*	c 14	NASA-CASE-MFS-11537 US-PATENT-APPL-SN-636878 US-PATENT-CLASS-23-254 US-PATENT-3,472,629	N71-20782*	c 10	NASA-CASE-XGS-01784 US-PATENT-APPL-SN-396444 US-PATENT-CLASS-250-206 US-PATENT-3,348,053
N71-19570*	c 15	NASA-CASE-XLE-05130-2 US-PATENT-APPL-SN-700586 US-PATENT-CLASS-277-25 US-PATENT-3,466,052	N71-20443*	c 15	NASA-CASE-MFS-07369 US-PATENT-APPL-SN-640462 US-PATENT-CLASS-29-492 US-PATENT-3,473,216	N71-20791*	c 07	NASA-CASE-XNP-05254 US-PATENT-APPL-SN-472372 US-PATENT-CLASS-325-31 US-PATENT-3,350,643
N71-19610*	c 09	NASA-CASE-NPO-10037 US-PATENT-APPL-SN-700987 US-PATENT-CLASS-200-152 US-PATENT-3,470,342	N71-20445*	c 09	NASA-CASE-XNP-09775 US-PATENT-APPL-SN-668247 US-PATENT-CLASS-333-96 US-PATENT-3,474,357	N71-20813*	c 15	NASA-CASE-XMS-02184 US-PATENT-APPL-SN-608247 US-PATENT-CLASS-248-27 US-PATENT-3,361,400
N71-19687*	c 08	NASA-CASE-XNP-04780 US-PATENT-APPL-SN-455477 US-PATENT-CLASS-340-347 US-PATENT-3,430,227	N71-20446*	c 09	NASA-CASE-XLE-04250 US-PATENT-APPL-SN-621098 US-PATENT-CLASS-310-54 US-PATENT-3,447,003	N71-20814*	c 07	NASA-CASE-XNP-01306 US-PATENT-APPL-SN-343426 US-PATENT-CLASS-179-15 US-PATENT-3,364,311
N71-19763*	c 08	NASA-CASE-XAC-06302 US-PATENT-APPL-SN-574284 US-PATENT-CLASS-325-60 US-PATENT-3,456,193	N71-20447*	c 09	NASA-CASE-XLA-02850 US-PATENT-APPL-SN-556784 US-PATENT-CLASS-307-267 US-PATENT-3,473,050	N71-20815*	c 12	NASA-CASE-XMF-01779 US-PATENT-APPL-SN-521999 US-PATENT-CLASS-346-1 US-PATENT-3,357,024
N71-19773*	c 07	NASA-CASE-GSC-10373-1 US-PATENT-APPL-SN-712658 US-PATENT-CLASS-325-4 US-PATENT-3,532,985	N71-20448*	c 10	NASA-CASE-XNP-03744 US-PATENT-APPL-SN-547677 US-PATENT-CLASS-318-314 US-PATENT-3,424,966	N71-20816*	c 09	NASA-CASE-XAC-01677 US-PATENT-APPL-SN-596338 US-PATENT-CLASS-73-147 US-PATENT-3,360,988
N71-19854*	c 07	NASA-CASE-GSC-10553-1 US-PATENT-APPL-SN-820963 US-PATENT-CLASS-343-100 US-PATENT-3,534,365	N71-20461*	c 14	NASA-CASE-XNP-09763 US-PATENT-APPL-SN-600682 US-PATENT-CLASS-117-6 US-PATENT-3,433,662	N71-20834*	c 33	NASA-CASE-XMS-02009 US-PATENT-APPL-SN-455352 US-PATENT-CLASS-141-5 US-PATENT-3,349,814
N71-20268*	c 05	NASA-CASE-XLA-02898 US-PATENT-APPL-SN-429932 US-PATENT-CLASS-128-1 US-PATENT-3,461,855	N71-20491*	c 03	NASA-CASE-XGS-05434 US-PATENT-APPL-SN-667636 US-PATENT-CLASS-136-182 US-PATENT-3,463,673	N71-20841*	c 10	NASA-CASE-XGS-01222 US-PATENT-APPL-SN-354182 US-PATENT-CLASS-325-305 US-PATENT-3,348,152
N71-20273*	c 03	NASA-CASE-NPO-10188 US-PATENT-APPL-SN-681687 US-PATENT-CLASS-244-1 US-PATENT-3,473,758	N71-20492*	c 03	NASA-CASE-XLE-04787 US-PATENT-APPL-SN-551846 US-PATENT-CLASS-136-89 US-PATENT-3,434,885	N71-20842*	c 09	NASA-CASE-XNP-05381 US-PATENT-APPL-SN-568352 US-PATENT-CLASS-338-82 US-PATENT-3,350,671
N71-20330*	c 28	NASA-CASE-XLE-103477-1 US-PATENT-APPL-SN-466390 US-PATENT-CLASS-60-39.36 US-PATENT-3,433,015	N71-20518*	c 24	NASA-CASE-XNP-02592 US-PATENT-APPL-SN-484490 US-PATENT-CLASS-324-33 US-PATENT-3,430,131	N71-20851*	c 09	NASA-CASE-XNP-04732 US-PATENT-APPL-SN-557584 US-PATENT-CLASS-339-177 US-PATENT-3,358,264
N71-20393*	c 15	NASA-CASE-MFS-06074 US-PATENT-APPL-SN-688743 US-PATENT-CLASS-228-9 US-PATENT-3,458,104	N71-20563*	c 25	NASA-CASE-XLA-06232 US-PATENT-APPL-SN-612740 US-PATENT-CLASS-324-58.5 US-PATENT-3,473,116	N71-20852*	c 10	NASA-CASE-XGS-03502 US-PATENT-APPL-SN-584066 US-PATENT-CLASS-331-17 US-PATENT-3,361,985
N71-20395*	c 15	NASA-CASE-XMF-06065 US-PATENT-APPL-SN-665679 US-PATENT-CLASS-219-275 US-PATENT-3,466,424	N71-20569*	c 09	NASA-CASE-XMS-08589-1 US-PATENT-APPL-SN-544899 US-PATENT-CLASS-324-57 US-PATENT-3,434,050	N71-20864*	c 09	NASA-CASE-XGS-03501 US-PATENT-APPL-SN-576521 US-PATENT-CLASS-343-16 US-PATENT-3,359,555
N71-20396*	c 31	NASA-CASE-XMF-08523 US-PATENT-APPL-SN-645563 US-PATENT-CLASS-244-1 US-PATENT-3,465,986	N71-20570*	c 02	NASA-CASE-XAC-08972 US-PATENT-APPL-SN-700174 US-PATENT-CLASS-244-76 US-PATENT-3,472,470	N71-20895*	c 03	NASA-CASE-XNP-00826 US-PATENT-APPL-SN-327163 US-PATENT-CLASS-136-89 US-PATENT-3,346,419
N71-20400*	c 16	NASA-CASE-MFS-11279 US-PATENT-APPL-SN-628094 US-PATENT-CLASS-219-121 US-PATENT-3,472,998	N71-20571*	c 08	NASA-CASE-XGS-04987 US-PATENT-APPL-SN-619908 US-PATENT-CLASS-315-24 US-PATENT-3,437,874	N71-20896*	c 12	NASA-CASE-XNP-02251 US-PATENT-APPL-SN-432030 US-PATENT-CLASS-321-48 US-PATENT-3,337,790
N71-20407*	c 03	NASA-CASE-NPO-10194 US-PATENT-APPL-SN-668249 US-PATENT-CLASS-136-182 US-PATENT-3,460,995	N71-20658*	c 09	NASA-CASE-XMS-03454 US-PATENT-APPL-SN-425363 US-PATENT-CLASS-343-915 US-PATENT-3,360,798	N71-20904*	c 03	NASA-CASE-XLE-01645 US-PATENT-APPL-SN-342574 US-PATENT-CLASS-136-86 US-PATENT-3,357,862
N71-20427*	c 14	NASA-CASE-XMS-13052 US-PATENT-APPL-SN-561223 US-PATENT-CLASS-62-268 US-PATENT-3,455,121	N71-20705*	c 09	NASA-CASE-XMF-01599 US-PATENT-APPL-SN-381940 US-PATENT-CLASS-117-212 US-PATENT-3,359,132	N71-20905*	c 06	NASA-CASE-XMF-02584 US-PATENT-APPL-SN-506135 US-PATENT-CLASS-260-2 US-PATENT-3,346,515
N71-20428*	c 14	NASA-CASE-XGS-04879 US-PATENT-APPL-SN-541399 US-PATENT-CLASS-324-5 US-PATENT-3,443,208	N71-20717*	c 06	NASA-CASE-XMF-04133 US-PATENT-APPL-SN-554949 US-PATENT-CLASS-260-2 US-PATENT-3,354,098	N71-20942*	c 28	NASA-CASE-XNP-04389 US-PATENT-APPL-SN-523511 US-PATENT-CLASS-60-265 US-PATENT-3,353,359
N71-20429*	c 14	NASA-CASE-XLE-05260 US-PATENT-APPL-SN-674355 US-PATENT-CLASS-73-117.4 US-PATENT-3,463,001	N71-20718*	c 05	NASA-CASE-XMS-04625 US-PATENT-APPL-SN-519161 US-PATENT-CLASS-244-122 US-PATENT-3,356,320	N71-21006*	c 14	NASA-CASE-XLA-01832 US-PATENT-APPL-SN-517858 US-PATENT-CLASS-346-50 US-PATENT-3,354,462
N71-20430*	c 14	NASA-CASE-XLA-03645 US-PATENT-APPL-SN-600266 US-PATENT-CLASS-250-83 US-PATENT-3,450,878	N71-20739*	c 15	NASA-CASE-XGS-02011 US-PATENT-APPL-SN-502693 US-PATENT-CLASS-308-9 US-PATENT-3,359,046	N71-21007*	c 14	NASA-CASE-XMS-06236 US-PATENT-APPL-SN-482670 US-PATENT-CLASS-73-290 US-PATENT-3,355,948
N71-20435*	c 14	NASA-CASE-XMS-06767-1 US-PATENT-APPL-SN-716795 US-PATENT-CLASS-73-422 US-PATENT-3,438,263	N71-20740*	c 15	NASA-CASE-XLA-01808 US-PATENT-APPL-SN-517159 US-PATENT-CLASS-74-471 US-PATENT-3,364,777	N71-21042*	c 08	NASA-CASE-XGS-01021 US-PATENT-APPL-SN-279646 US-PATENT-CLASS-340-174.1 US-PATENT-3,327,298
N71-20436*	c 12	NASA-CASE-LAR-11138 US-PATENT-APPL-SN-694317 US-PATENT-CLASS-73-147	N71-20741*	c 14	NASA-CASE-XMS-01618 US-PATENT-APPL-SN-418362 US-PATENT-CLASS-73-29	N71-21045*	c 32	NASA-CASE-XLA-01731 US-PATENT-APPL-SN-425365 US-PATENT-CLASS-52-2

N71-21060*	c 15	US-PATENT-3,364,631	N71-21483*	c 10	US-PATENT-3,345,866	N71-22706*	c 15	US-PATENT-3,341,977
		NASA-CASE-XLA-03660			NASA-CASE-XGS-01155			NASA-CASE-XMS-09310
		US-PATENT-APPL-SN-482307			US-PATENT-APPL-SN-557871			US-PATENT-APPL-SN-655724
N71-21064*	c 31	US-PATENT-CLASS-95-53	N71-21489*	c 15	US-PATENT-CLASS-343-16	N71-22707*	c 08	US-PATENT-CLASS-137-496
		US-PATENT-3,361,045			US-PATENT-3,344,425			US-PATENT-3,384,111
		NASA-CASE-XGS-02554			NASA-CASE-XNP-06914			NASA-CASE-XNP-04067
N71-21068*	c 18	US-PATENT-APPL-SN-504266	N71-21493*	c 28	US-PATENT-APPL-SN-590147	N71-22710*	c 08	US-PATENT-APPL-SN-466875
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-85-33			US-PATENT-CLASS-340-172.5
		US-PATENT-3,350,034			US-PATENT-3,352,192			US-PATENT-3,369,222
N71-21072*	c 14	NASA-CASE-XNP-02888	N71-21507*	c 33	NASA-CASE-XLA-10450	N71-22713*	c 15	NASA-CASE-XNP-02778
		US-PATENT-APPL-SN-409126			US-PATENT-APPL-SN-594587			US-PATENT-APPL-SN-508170
		US-PATENT-CLASS-239-265.11			US-PATENT-CLASS-239-265.19			US-PATENT-CLASS-340-172.5
N71-21076*	c 15	US-PATENT-3,347,465	N71-21528*	c 15	US-PATENT-3,347,466	N71-22721*	c 15	US-PATENT-3,369,223
		NASA-CASE-XAC-02981			NASA-CASE-XLE-04603			NASA-CASE-XLA-03492
		US-PATENT-APPL-SN-464879			US-PATENT-APPL-SN-638194			US-PATENT-APPL-SN-395348
N71-21078*	c 15	US-PATENT-CLASS-73-398	N71-21529*	c 15	US-PATENT-CLASS-60-243	N71-22722*	c 15	US-PATENT-CLASS-156-60
		US-PATENT-3,352,157			US-PATENT-3,347,046			US-PATENT-3,342,653
		NASA-CASE-XMS-03745			NASA-CASE-XLA-01446			NASA-CASE-XMF-03212
N71-21079*	c 14	US-PATENT-APPL-SN-534295	N71-21531*	c 15	US-PATENT-APPL-SN-400613	N71-22723*	c 15	US-PATENT-APPL-SN-577549
		US-PATENT-CLASS-24-263			US-PATENT-CLASS-53-102			US-PATENT-CLASS-55-418
		US-PATENT-3,346,929			US-PATENT-3,336,725			US-PATENT-3,385,036
N71-21082*	c 14	NASA-CASE-XNP-03459	N71-21536*	c 15	NASA-CASE-XGS-02422	N71-22748*	c 05	NASA-CASE-XMS-04292
		US-PATENT-APPL-SN-457879			US-PATENT-APPL-SN-493943			US-PATENT-APPL-SN-517157
		US-PATENT-CLASS-29-495			US-PATENT-CLASS-74-126			US-PATENT-CLASS-82-14
N71-21088*	c 14	US-PATENT-3,357,093	N71-21583*	c 09	US-PATENT-3,331,255	N71-22750*	c 07	US-PATENT-3,373,640
		NASA-CASE-XLA-03102			NASA-CASE-XMS-03722			NASA-CASE-XMF-01083
		US-PATENT-APPL-SN-576195			US-PATENT-APPL-SN-487934			US-PATENT-APPL-SN-432028
N71-21089*	c 12	US-PATENT-CLASS-33-31	N71-21586*	c 33	US-PATENT-CLASS-267-64	N71-22752*	c 14	US-PATENT-CLASS-72-83
		US-PATENT-3,364,578			US-PATENT-3,330,549			US-PATENT-3,340,713
		NASA-CASE-XGS-02629			NASA-CASE-XNP-02341			NASA-CASE-XMS-04170
N71-21091*	c 14	US-PATENT-APPL-SN-500435	N71-21651*	c 18	US-PATENT-APPL-SN-432025	N71-22765*	c 14	US-PATENT-APPL-SN-482311
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-52-127			US-PATENT-CLASS-9-312
		US-PATENT-3,350,033			US-PATENT-3,330,082			US-PATENT-3,343,189
N71-21177*	c 15	NASA-CASE-XNP-06957	N71-21688*	c 21	NASA-CASE-XMS-06876	N71-22792*	c 33	NASA-CASE-XNP-02748
		US-PATENT-APPL-SN-406097			US-PATENT-APPL-SN-605100			US-PATENT-APPL-SN-420245
		US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-72-34			US-PATENT-CLASS-340-146.1
N71-21179*	c 15	US-PATENT-3,348,048	N71-21693*	c 25	US-PATENT-3,345,840	N71-22796*	c 09	US-PATENT-3,373,404
		NASA-CASE-XMS-01905			NASA-CASE-XLE-02008			NASA-CASE-XNP-01735
		US-PATENT-APPL-SN-280580			US-PATENT-APPL-SN-487342			US-PATENT-APPL-SN-408438
N71-21190*	c 14	US-PATENT-CLASS-141-91	N71-21694*	c 25	US-PATENT-CLASS-338-64	N71-22797*	c 15	US-PATENT-CLASS-343-786
		US-PATENT-3,331,404			US-PATENT-3,329,918			US-PATENT-3,373,431
		NASA-CASE-XLE-00787			NASA-CASE-XLA-01794			NASA-CASE-XMF-01974
N71-21091*	c 14	US-PATENT-APPL-SN-330210	N71-21708*	c 21	US-PATENT-APPL-SN-464880	N71-22798*	c 15	US-PATENT-APPL-SN-568354
		US-PATENT-CLASS-324-33			US-PATENT-CLASS-73-86			US-PATENT-CLASS-73-419
		US-PATENT-3,346,806			US-PATENT-3,357,237			US-PATENT-3,383,922
N71-21177*	c 15	NASA-CASE-XNP-02983	N71-21744*	c 15	NASA-CASE-XMF-01402	N71-22874*	c 15	NASA-CASE-XLA-00934
		US-PATENT-APPL-SN-407599			US-PATENT-APPL-SN-328140			US-PATENT-APPL-SN-326298
		US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-161-68			US-PATENT-CLASS-73-84
N71-21179*	c 15	US-PATENT-3,350,926	N71-21821*	c 23	US-PATENT-3,346,442	N71-22877*	c 15	US-PATENT-3,339,404
		NASA-CASE-XAC-06956			NASA-CASE-XMF-00684			NASA-CASE-XLA-01243
		US-PATENT-APPL-SN-538186			US-PATENT-APPL-SN-260087			US-PATENT-APPL-SN-538911
N71-21234*	c 15	US-PATENT-CLASS-259-71	N71-21822*	c 28	US-PATENT-CLASS-235-150.25	N71-22878*	c 15	US-PATENT-CLASS-244-1
		US-PATENT-3,347,531			US-PATENT-3,331,951			US-PATENT-3,384,324
		NASA-CASE-XLA-01401			NASA-CASE-XLA-03103			NASA-CASE-XKS-03381
N71-21234*	c 15	US-PATENT-APPL-SN-382976	N71-21822*	c 28	US-PATENT-APPL-SN-531642	N71-22880*	c 21	US-PATENT-APPL-SN-437611
		US-PATENT-CLASS-235-61.6			US-PATENT-CLASS-315-111			US-PATENT-CLASS-317-9
		US-PATENT-3,346,724			US-PATENT-3,333,152			US-PATENT-3,340,430
N71-21234*	c 15	NASA-CASE-XKS-02582	N71-21822*	c 28	NASA-CASE-XLE-02902	N71-22881*	c 23	NASA-CASE-XLE-01092
		US-PATENT-APPL-SN-424153			US-PATENT-APPL-SN-485957			US-PATENT-APPL-SN-422098
		US-PATENT-CLASS-251-172			US-PATENT-CLASS-60-202			US-PATENT-CLASS-72-253
N71-21234*	c 15	US-PATENT-3,327,991	N71-21822*	c 28	US-PATENT-3,336,748	N71-22875*	c 11	US-PATENT-3,342,055
		NASA-CASE-XNP-03637			NASA-CASE-XLA-02551			NASA-CASE-XMS-04178
		US-PATENT-APPL-SN-453232			US-PATENT-APPL-SN-416940			US-PATENT-APPL-SN-511299
N71-21403*	c 15	US-PATENT-CLASS-310-9.1	N71-21822*	c 28	US-PATENT-CLASS-244-1	N71-22877*	c 15	US-PATENT-CLASS-83-467
		US-PATENT-3,359,435			US-PATENT-3,329,375			US-PATENT-3,367,224
		NASA-CASE-XMF-03988			NASA-CASE-XGS-04227			NASA-CASE-XMF-03511
N71-21403*	c 15	US-PATENT-APPL-SN-578923	N71-21822*	c 28	US-PATENT-APPL-SN-545805	N71-22877*	c 15	US-PATENT-APPL-SN-540414
		US-PATENT-CLASS-252-26			US-PATENT-CLASS-74-409			US-PATENT-CLASS-90-12
		US-PATENT-3,361,666			US-PATENT-3,359,819			US-PATENT-3,386,337
N71-21404*	c 15	NASA-CASE-XLA-01262	N71-21822*	c 28	NASA-CASE-XLE-03494	N71-22877*	c 15	NASA-CASE-XLA-00188
		US-PATENT-APPL-SN-386800			US-PATENT-APPL-SN-529593			US-PATENT-APPL-SN-254847
		US-PATENT-CLASS-156-3			US-PATENT-CLASS-60-251			US-PATENT-CLASS-102-49.5
N71-21449*	c 09	US-PATENT-3,356,549	N71-21822*	c 28	US-PATENT-3,345,822	N71-22875*	c 11	US-PATENT-3,368,486
		NASA-CASE-XMS-01991			NASA-CASE-XNP-01059			NASA-CASE-XAC-05333
		US-PATENT-APPL-SN-410326			US-PATENT-APPL-SN-393464			US-PATENT-APPL-SN-546148
N71-21473*	c 10	US-PATENT-CLASS-323-22	N71-21822*	c 28	US-PATENT-CLASS-250-232	N71-22877*	c 15	US-PATENT-CLASS-119-15
		US-PATENT-3,344,340			US-PATENT-3,354,320			US-PATENT-3,367,308
		NASA-CASE-XGS-08679			NASA-CASE-XNP-04124			NASA-CASE-XMF-10040
N71-21474*	c 11	US-PATENT-APPL-SN-312443	N71-21822*	c 28	US-PATENT-APPL-SN-498168	N71-22877*	c 15	US-PATENT-APPL-SN-592680
		US-PATENT-CLASS-343-113			US-PATENT-CLASS-60-202			US-PATENT-CLASS-188-1
		US-PATENT-3,340,532			US-PATENT-3,345,820			US-PATENT-3,381,778
N71-21474*	c 11	NASA-CASE-XMS-04798	N71-21822*	c 28	NASA-CASE-XNP-05429	N71-22878*	c 15	NASA-CASE-XMS-04545
		US-PATENT-APPL-SN-480210			US-PATENT-APPL-SN-578928			US-PATENT-APPL-SN-508601
		US-PATENT-CLASS-35-12			US-PATENT-CLASS-103-1			US-PATENT-CLASS-73-144
N71-21475*	c 11	US-PATENT-3,330,052	N71-21881*	c 31	US-PATENT-3,361,067	N71-22880*	c 21	US-PATENT-3,381,527
		NASA-CASE-XLA-05378			NASA-CASE-XNP-02595			NASA-CASE-XLA-00793
		US-PATENT-APPL-SN-484156			US-PATENT-APPL-SN-502709			US-PATENT-APPL-SN-369334
N71-21476*	c 07	US-PATENT-CLASS-73-343	N71-21882*	c 23	US-PATENT-CLASS-244-1	N71-22881*	c 23	US-PATENT-CLASS-88-1
		US-PATENT-3,331,246			US-PATENT-3,333,788			US-PATENT-3,381,569
		NASA-CASE-XNP-00746			NASA-CASE-XNP-03853			NASA-CASE-XLE-04

N71-22890*	c 33	US-PATENT-3,373,430 NASA-CASE-XLA-07728 US-PATENT-APPL-SN-538908 US-PATENT-CLASS-165-96 US-PATENT-3,374,830	N71-22893*	c 14	US-PATENT-3,377,845 NASA-CASE-XMS-05365 US-PATENT-APPL-SN-515484 US-PATENT-CLASS-310-8.5 US-PATENT-3,387,149	N71-23037*	c 14	US-PATENT-3,383,903 NASA-CASE-XAC-01662 US-PATENT-APPL-SN-385520 US-PATENT-CLASS-324-117 US-PATENT-3,365,665
N71-22894*	c 18	NASA-CASE-XLE-03925 US-PATENT-APPL-SN-514407 US-PATENT-CLASS-75-204 US-PATENT-3,337,337	N71-22894*	c 15	NASA-CASE-XFR-05421 US-PATENT-APPL-SN-567686 US-PATENT-CLASS-24-126 US-PATENT-3,378,892	N71-23039*	c 14	NASA-CASE-XNP-01659 US-PATENT-APPL-SN-410332 US-PATENT-CLASS-136-230 US-PATENT-3,377,208
N71-22895*	c 16	NASA-CASE-XMS-04269 US-PATENT-APPL-SN-516793 US-PATENT-CLASS-250-199 US-PATENT-3,341,708	N71-22895*	c 14	NASA-CASE-XNP-08680 US-PATENT-APPL-SN-562444 US-PATENT-CLASS-73-9 US-PATENT-3,376,730	N71-23040*	c 14	NASA-CASE-XNP-05535 US-PATENT-APPL-SN-487939 US-PATENT-CLASS-244-1 US-PATENT-3,339,863
N71-22896*	c 05	NASA-CASE-XMS-02399 US-PATENT-APPL-SN-492344 US-PATENT-CLASS-128-2.06 US-PATENT-3,384,075	N71-22896*	c 14	NASA-CASE-XGS-01331 US-PATENT-APPL-SN-445807 US-PATENT-CLASS-250-218 US-PATENT-3,388,258	N71-23041*	c 14	NASA-CASE-XNP-01056 US-PATENT-APPL-SN-377146 US-PATENT-CLASS-250-41.9 US-PATENT-3,340,395
N71-22897*	c 08	NASA-CASE-XNP-01753 US-PATENT-APPL-SN-423412 US-PATENT-CLASS-235-92 US-PATENT-3,374,339	N71-22897*	c 15	NASA-CASE-XNP-01641 US-PATENT-APPL-SN-464885 US-PATENT-CLASS-308-10 US-PATENT-3,378,315	N71-23042*	c 11	NASA-CASE-XMS-02930 US-PATENT-APPL-SN-417253 US-PATENT-CLASS-250-52 US-PATENT-3,340,397
N71-22961*	c 10	NASA-CASE-XMS-02159 US-PATENT-APPL-SN-534564 US-PATENT-CLASS-323-56 US-PATENT-3,365,657	N71-22998*	c 18	NASA-CASE-XGS-02435 US-PATENT-APPL-SN-392965 US-PATENT-CLASS-106-40 US-PATENT-3,382,082	N71-23043*	c 26	NASA-CASE-XNP-01959 US-PATENT-APPL-SN-410330 US-PATENT-CLASS-136-89 US-PATENT-3,398,057
N71-22962*	c 10	NASA-CASE-XGS-05441 US-PATENT-APPL-SN-505321 US-PATENT-CLASS-328-233 US-PATENT-3,366,886	N71-22999*	c 09	NASA-CASE-XLA-00781 US-PATENT-APPL-SN-307721 US-PATENT-CLASS-88-14 US-PATENT-3,364,813	N71-23046*	c 17	NASA-CASE-XNP-04338 US-PATENT-APPL-SN-461765 US-PATENT-CLASS-29-182.2 US-PATENT-3,421,864
N71-22964*	c 14	NASA-CASE-XLE-02024 US-PATENT-APPL-SN-422099 US-PATENT-CLASS-73-15 US-PATENT-3,365,930	N71-23001*	c 07	NASA-CASE-XGS-01812 US-PATENT-APPL-SN-392973 US-PATENT-CLASS-340-174.1 US-PATENT-3,380,042	N71-23047*	c 18	NASA-CASE-XLA-01995 US-PATENT-APPL-SN-411945 US-PATENT-CLASS-148-6.16 US-PATENT-3,395,053
N71-22965*	c 14	NASA-CASE-XGS-02319 US-PATENT-APPL-SN-496205 US-PATENT-CLASS-73-117 US-PATENT-3,365,941	N71-23006*	c 03	NASA-CASE-XGS-02631 US-PATENT-APPL-SN-425972 US-PATENT-CLASS-136-133 US-PATENT-3,340,099	N71-23048*	c 15	NASA-CASE-XNP-03972 US-PATENT-APPL-SN-502710 US-PATENT-CLASS-184-1 US-PATENT-3,367,445
N71-22968*	c 31	NASA-CASE-XLA-02050 US-PATENT-APPL-SN-568067 US-PATENT-CLASS-244-1 US-PATENT-3,386,685	N71-23007*	c 02	NASA-CASE-XMF-04163 US-PATENT-APPL-SN-424156 US-PATENT-CLASS-73-189 US-PATENT-3,340,732	N71-23049*	c 15	NASA-CASE-XMF-01049 US-PATENT-APPL-SN-506137 US-PATENT-CLASS-339-5 US-PATENT-3,375,479
N71-22969*	c 31	NASA-CASE-XLA-03132 US-PATENT-APPL-SN-610728 US-PATENT-CLASS-244-1 US-PATENT-3,386,686	N71-23008*	c 31	NASA-CASE-XLA-04804 US-PATENT-APPL-SN-577546 US-PATENT-CLASS-102-49.5 US-PATENT-3,384,016	N71-23050*	c 15	NASA-CASE-XMF-01730 US-PATENT-APPL-SN-517869 US-PATENT-CLASS-228-8 US-PATENT-3,373,914
N71-22974*	c 03	NASA-CASE-XGS-02630 US-PATENT-APPL-SN-494287 US-PATENT-CLASS-136-132 US-PATENT-3,382,107	N71-23009*	c 31	NASA-CASE-XGS-02607 US-PATENT-APPL-SN-474531 US-PATENT-CLASS-244-1 US-PATENT-3,341,151	N71-23051*	c 15	NASA-CASE-XAC-01158 US-PATENT-APPL-SN-420250 US-PATENT-CLASS-137-625.5 US-PATENT-3,369,564
N71-22975*	c 06	NASA-CASE-XNP-07659 US-PATENT-APPL-SN-567806 US-PATENT-CLASS-18-26 US-PATENT-3,381,339	N71-23015*	c 09	NASA-CASE-XGS-02751 US-PATENT-APPL-SN-491059 US-PATENT-CLASS-307-288 US-PATENT-3,374,366	N71-23052*	c 15	NASA-CASE-XLA-03497 US-PATENT-APPL-SN-392992 US-PATENT-CLASS-156-285 US-PATENT-3,373,069
N71-22982*	c 15	NASA-CASE-XLA-02809 US-PATENT-APPL-SN-554897 US-PATENT-CLASS-308-176 US-PATENT-3,397,932	N71-23021*	c 09	NASA-CASE-XAC-02807 US-PATENT-APPL-SN-456581 US-PATENT-CLASS-324-120 US-PATENT-3,384,820	N71-23080*	c 05	NASA-CASE-XLE-02531 US-PATENT-APPL-SN-425098 US-PATENT-CLASS-312-1 US-PATENT-3,337,279
N71-22983*	c 28	NASA-CASE-XMF-06926 US-PATENT-APPL-SN-537615 US-PATENT-CLASS-60-258 US-PATENT-3,336,754	N71-23022*	c 15	NASA-CASE-XMS-01625 US-PATENT-APPL-SN-418933 US-PATENT-CLASS-136-86 US-PATENT-3,389,017	N71-23081*	c 28	NASA-CASE-XNP-02923 US-PATENT-APPL-SN-494280 US-PATENT-CLASS-60-202 US-PATENT-3,367,114
N71-22984*	c 07	NASA-CASE-XMS-04312 US-PATENT-APPL-SN-521754 US-PATENT-CLASS-343-708 US-PATENT-3,384,895	N71-23023*	c 15	NASA-CASE-XMF-04042 US-PATENT-APPL-SN-605518 US-PATENT-CLASS-55-204 US-PATENT-3,397,512	N71-23084*	c 10	NASA-CASE-XLA-01219 US-PATENT-APPL-SN-402978 US-PATENT-CLASS-332-1 US-PATENT-3,366,894
N71-22985*	c 09	NASA-CASE-XMF-03934 US-PATENT-APPL-SN-530958 US-PATENT-CLASS-250-83.3 US-PATENT-3,379,885	N71-23024*	c 15	NASA-CASE-XNP-01747 US-PATENT-APPL-SN-413661 US-PATENT-CLASS-251-148 US-PATENT-3,341,169	N71-23085*	c 33	NASA-CASE-XFR-03802 US-PATENT-APPL-SN-460877 US-PATENT-CLASS-73-190 US-PATENT-3,367,182
N71-22986*	c 10	NASA-CASE-XMF-01892 US-PATENT-APPL-SN-464878 US-PATENT-CLASS-328-167 US-PATENT-3,375,451	N71-23025*	c 15	NASA-CASE-XNP-08877 US-PATENT-APPL-SN-574282 US-PATENT-CLASS-62-6 US-PATENT-3,367,121	N71-23086*	c 15	NASA-CASE-XMS-04533 US-PATENT-APPL-SN-557016 US-PATENT-CLASS-202-234 US-PATENT-3,397,117
N71-22987*	c 09	NASA-CASE-XLE-04788 US-PATENT-APPL-SN-537617 US-PATENT-CLASS-313-352 US-PATENT-3,396,303	N71-23026*	c 07	NASA-CASE-XNP-02791 US-PATENT-APPL-SN-390251 US-PATENT-CLASS-178-6 US-PATENT-3,383,461	N71-23087*	c 14	NASA-CASE-XNP-03918 US-PATENT-APPL-SN-510475 US-PATENT-CLASS-73-88.5 US-PATENT-3,388,590
N71-22988*	c 09	NASA-CASE-XGS-03304 US-PATENT-APPL-SN-483886 US-PATENT-CLASS-73-1 US-PATENT-3,381,517	N71-23027*	c 09	NASA-CASE-XNP-01960 US-PATENT-APPL-SN-438135 US-PATENT-CLASS-29-572 US-PATENT-3,340,599	N71-23088*	c 18	NASA-CASE-XNP-00597 US-PATENT-APPL-SN-410325 US-PATENT-CLASS-65-7 US-PATENT-3,337,315
N71-22989*	c 14	NASA-CASE-XLA-01551 US-PATENT-APPL-SN-422092 US-PATENT-CLASS-73-190 US-PATENT-3,382,714	N71-23029*	c 10	NASA-CASE-XGS-03427 US-PATENT-APPL-SN-500446 US-PATENT-CLASS-307-265 US-PATENT-3,383,524	N71-23092*	c 14	NASA-CASE-XLA-01530 US-PATENT-APPL-SN-420466 US-PATENT-CLASS-188-1 US-PATENT-3,337,004
N71-22990*	c 14	NASA-CASE-XMS-04201 US-PATENT-APPL-SN-507254 US-PATENT-CLASS-324-70 US-PATENT-3,379,974	N71-23030*	c 11	NASA-CASE-XNP-03578 US-PATENT-APPL-SN-445292 US-PATENT-CLASS-73-147 US-PATENT-3,342,066	N71-23093*	c 14	NASA-CASE-XLE-03280 US-PATENT-APPL-SN-517156 US-PATENT-CLASS-73-400 US-PATENT-3,379,064
N71-22991*	c 14	NASA-CASE-XLA-01791 US-PATENT-APPL-SN-462763 US-PATENT-CLASS-250-227 US-PATENT-3,397,318	N71-23033*	c 10	NASA-CASE-XNP-01318 US-PATENT-APPL-SN-380965 US-PATENT-CLASS-340-174 US-PATENT-3,388,387	N71-23096*	c 05	NASA-CASE-XMS-06064 US-PATENT-APPL-SN-563646 US-PATENT-CLASS-2-14 US-PATENT-3,378,851
N71-22992*	c 14	NASA-CASE-XGS-01023 US-PATENT-APPL-SN-446131 US-PATENT-CLASS-73-65	N71-23036*	c 14	NASA-CASE-XNP-01660 US-PATENT-APPL-SN-578916 US-PATENT-CLASS-73-4	N71-23097*	c 09	NASA-CASE-XNP-02140 US-PATENT-APPL-SN-440036 US-PATENT-CLASS-330-61

N71-23098*	c 07	US-PATENT-3,337,812 NASA-CASE-XGS-00740 US-PATENT-APPL-SN-353644 US-PATENT-CLASS-325-305 US-PATENT-3,341,778	N71-23269*	c 14	US-PATENT-3,419,329 NASA-CASE-XLA-01584 US-PATENT-APPL-SN-416943 US-PATENT-CLASS-250-203 US-PATENT-3,389,260	N71-23544*	c 10	US-PATENT-3,393,347 NASA-CASE-XNP-05382 US-PATENT-APPL-SN-536217 US-PATENT-CLASS-332-19 US-PATENT-3,393,380
N71-23099*	c 10	NASA-CASE-XNP-08875 US-PATENT-APPL-SN-640455 US-PATENT-CLASS-343-6.5 US-PATENT-3,380,049	N71-23270*	c 09	NASA-CASE-XMS-04919 US-PATENT-APPL-SN-516155 US-PATENT-CLASS-307-263 US-PATENT-3,417,266	N71-23545*	c 09	NASA-CASE-XMF-04367 US-PATENT-APPL-SN-457874 US-PATENT-CLASS-307-235 US-PATENT-3,404,289
N71-23159*	c 05	NASA-CASE-XMF-06589 US-PATENT-APPL-SN-543206 US-PATENT-CLASS-5-82 US-PATENT-3,343,180	N71-23271*	c 10	NASA-CASE-XNP-00952 US-PATENT-APPL-SN-388967 US-PATENT-CLASS-317-148.5 US-PATENT-3,417,298	N71-23548*	c 09	NASA-CASE-XNP-06507 US-PATENT-APPL-SN-605099 US-PATENT-CLASS-333-98 US-PATENT-3,419,827
N71-23161*	c 05	NASA-CASE-XAC-07043 US-PATENT-APPL-SN-566397 US-PATENT-CLASS-2-2.1 US-PATENT-3,405,406	N71-23289*	c 21	NASA-CASE-XMF-01669 US-PATENT-APPL-SN-399419 US-PATENT-CLASS-74-5.47 US-PATENT-3,415,126	N71-23573*	c 09	NASA-CASE-XGS-01418 US-PATENT-APPL-SN-392969 US-PATENT-CLASS-333-73 US-PATENT-3,393,384
N71-23174*	c 14	NASA-CASE-XGS-02610 US-PATENT-APPL-SN-491054 US-PATENT-CLASS-321-60 US-PATENT-3,417,316	N71-23292*	c 26	NASA-CASE-XLE-10715 US-PATENT-APPL-SN-603397 US-PATENT-CLASS-252-62.3 US-PATENT-3,409,554	N71-23598*	c 09	NASA-CASE-XER-11019 US-PATENT-APPL-SN-711971 US-PATENT-CLASS-331-78 US-PATENT-3,470,489
N71-23175*	c 14	NASA-CASE-XKS-03509 US-PATENT-APPL-SN-566392 US-PATENT-CLASS-356-166 US-PATENT-3,414,358	N71-23293*	c 28	NASA-CASE-XNP-06942 US-PATENT-APPL-SN-563651 US-PATENT-CLASS-60-202 US-PATENT-3,412,559	N71-23599*	c 22	NASA-CASE-XLE-01903 US-PATENT-APPL-SN-466868 US-PATENT-CLASS-310-4 US-PATENT-3,393,330
N71-23185*	c 04	NASA-CASE-XAC-05422 US-PATENT-APPL-SN-483885 US-PATENT-CLASS-128-2.05 US-PATENT-3,412,729	N71-23295*	c 08	NASA-CASE-XNP-04819 US-PATENT-APPL-SN-502701 US-PATENT-CLASS-340-146.2 US-PATENT-3,390,378	N71-23654*	c 26	NASA-CASE-XLE-02798 US-PATENT-APPL-SN-660571 US-PATENT-CLASS-148-1.5 US-PATENT-3,390,020
N71-23187*	c 03	NASA-CASE-XGS-03390 US-PATENT-APPL-SN-551182 US-PATENT-CLASS-136-89 US-PATENT-3,419,433	N71-23311*	c 09	NASA-CASE-XGS-03632 US-PATENT-APPL-SN-502739 US-PATENT-CLASS-307-260 US-PATENT-3,390,282	N71-23658*	c 18	NASA-CASE-XLE-02647 US-PATENT-APPL-SN-430226 US-PATENT-CLASS-220-9 US-PATENT-3,392,864
N71-23188*	c 09	NASA-CASE-XMF-14301 US-PATENT-APPL-SN-697341 US-PATENT-CLASS-321-2 US-PATENT-3,470,446	N71-23315*	c 10	NASA-CASE-XLA-03356 US-PATENT-APPL-SN-536216 US-PATENT-CLASS-307-234 US-PATENT-3,448,290	N71-23662*	c 10	NASA-CASE-XGS-01118 US-PATENT-APPL-SN-408442 US-PATENT-CLASS-235-154 US-PATENT-3,399,299
N71-23189*	c 09	NASA-CASE-XNP-06028 US-PATENT-APPL-SN-649356 US-PATENT-CLASS-315-26 US-PATENT-3,431,460	N71-23316*	c 09	NASA-CASE-XMS-09352 US-PATENT-APPL-SN-564919 US-PATENT-CLASS-323-22 US-PATENT-3,417,321	N71-23663*	c 10	NASA-CASE-XKS-04631 US-PATENT-APPL-SN-663180 US-PATENT-CLASS-200-82 US-PATENT-3,433,909
N71-23190*	c 09	NASA-CASE-XLE-04501 US-PATENT-APPL-SN-522794 US-PATENT-CLASS-313-231 US-PATENT-3,413,510	N71-23317*	c 05	NASA-CASE-XMS-06061 US-PATENT-APPL-SN-605092 US-PATENT-CLASS-307-260 US-PATENT-3,467,837	N71-23669*	c 10	NASA-CASE-XAC-10607 US-PATENT-APPL-SN-694345 US-PATENT-CLASS-331-111 US-PATENT-3,470,495
N71-23191*	c 09	NASA-CASE-XMS-05890 US-PATENT-APPL-SN-650166 US-PATENT-CLASS-137-554 US-PATENT-3,414,012	N71-23336*	c 03	NASA-CASE-XGS-01513 US-PATENT-APPL-SN-502756 US-PATENT-CLASS-136-166 US-PATENT-3,390,017	N71-23698*	c 14	NASA-CASE-XGS-08259 US-PATENT-APPL-SN-666551 US-PATENT-CLASS-242-192 US-PATENT-3,460,781
N71-23225*	c 14	NASA-CASE-XNP-04817 US-PATENT-APPL-SN-516152 US-PATENT-CLASS-73-12 US-PATENT-3,412,598	N71-23354*	c 03	NASA-CASE-XLE-04535 US-PATENT-APPL-SN-588671 US-PATENT-CLASS-250-212 US-PATENT-3,437,818	N71-23699*	c 14	NASA-CASE-XMF-10289 US-PATENT-APPL-SN-674356 US-PATENT-CLASS-324-72 US-PATENT-3,470,466
N71-23226*	c 14	NASA-CASE-XNP-06509 US-PATENT-APPL-SN-570095 US-PATENT-CLASS-73-194 US-PATENT-3,411,356	N71-23365*	c 17	NASA-CASE-XNP-03063 US-PATENT-APPL-SN-521994 US-PATENT-CLASS-75-172 US-PATENT-3,413,115	N71-23710*	c 18	NASA-CASE-XLE-08511 US-PATENT-APPL-SN-635972 US-PATENT-CLASS-29-182.1 US-PATENT-3,419,363
N71-23227*	c 14	NASA-CASE-XMF-06515 US-PATENT-APPL-SN-548808 US-PATENT-CLASS-73-432 US-PATENT-3,408,870	N71-23401*	c 14	NASA-CASE-XGS-03230 US-PATENT-APPL-SN-517158 US-PATENT-CLASS-250-83 US-PATENT-3,419,992	N71-23723*	c 30	NASA-CASE-XNP-09832 US-PATENT-APPL-SN-632163 US-PATENT-CLASS-343-100 US-PATENT-3,417,399
N71-23230*	c 06	NASA-CASE-XMF-06409 US-PATENT-APPL-SN-575930 US-PATENT-CLASS-260-448.2 US-PATENT-3,433,818	N71-23405*	c 07	NASA-CASE-XGS-01537 US-PATENT-APPL-SN-432026 US-PATENT-CLASS-325-163 US-PATENT-3,417,332	N71-23725*	c 14	NASA-CASE-XGS-01013 US-PATENT-APPL-SN-665209 US-PATENT-CLASS-73-133 US-PATENT-3,460,381
N71-23239*	c 03	NASA-CASE-XMF-08217 US-PATENT-APPL-SN-688807 US-PATENT-CLASS-321-2 US-PATENT-3,470,443	N71-23443*	c 09	NASA-CASE-XLE-02823 US-PATENT-APPL-SN-491058 US-PATENT-CLASS-310-10 US-PATENT-3,393,332	N71-23726*	c 14	NASA-CASE-XMF-05224 US-PATENT-APPL-SN-660842 US-PATENT-CLASS-73-189 US-PATENT-3,465,584
N71-23240*	c 14	NASA-CASE-XLA-00941 US-PATENT-APPL-SN-508873 US-PATENT-CLASS-250-227 US-PATENT-3,407,304	N71-23449*	c 03	NASA-CASE-XLE-08569 US-PATENT-APPL-SN-641420 US-PATENT-CLASS-136-89 US-PATENT-3,472,698	N71-23755*	c 14	NASA-CASE-XMF-04134 US-PATENT-APPL-SN-610723 US-PATENT-CLASS-73-4 US-PATENT-3,472,059
N71-23248*	c 17	NASA-CASE-XLE-03629 US-PATENT-APPL-SN-554950 US-PATENT-CLASS-75-170 US-PATENT-3,415,643	N71-23497*	c 01	NASA-CASE-XLA-01486 US-PATENT-APPL-SN-484485 US-PATENT-CLASS-244-13 US-PATENT-3,392,936	N71-23790*	c 14	NASA-CASE-XAC-04885 US-PATENT-APPL-SN-573432 US-PATENT-CLASS-73-141 US-PATENT-3,415,116
N71-23254*	c 15	NASA-CASE-XFR-05302 US-PATENT-APPL-SN-685463 US-PATENT-CLASS-85-7 US-PATENT-3,443,472	N71-23499*	c 06	NASA-CASE-XNP-03835 US-PATENT-APPL-SN-456874 US-PATENT-CLASS-44-77 US-PATENT-3,393,059	N71-23797*	c 14	NASA-CASE-XNP-06510 US-PATENT-APPL-SN-562445 US-PATENT-CLASS-250-203 US-PATENT-3,417,247
N71-23255*	c 15	NASA-CASE-XMS-07487 US-PATENT-APPL-SN-580365 US-PATENT-CLASS-244-83 US-PATENT-3,409,252	N71-23500*	c 06	NASA-CASE-XNP-03250 US-PATENT-APPL-SN-485058 US-PATENT-CLASS-260-85.5 US-PATENT-3,419,537	N71-23798*	c 15	NASA-CASE-XMF-02330 US-PATENT-APPL-SN-608944 US-PATENT-CLASS-219-130 US-PATENT-3,469,069
N71-23256*	c 15	NASA-CASE-XMF-03290 US-PATENT-APPL-SN-479353 US-PATENT-CLASS-53-22 US-PATENT-3,415,032	N71-23525*	c 09	NASA-CASE-XGS-02317 US-PATENT-APPL-SN-576183 US-PATENT-CLASS-328-61 US-PATENT-3,464,018	N71-23809*	c 15	NASA-CASE-XAC-10019 US-PATENT-APPL-SN-686209 US-PATENT-CLASS-74-89.18 US-PATENT-3,472,086
N71-23267*	c 14	NASA-CASE-XLE-04026 US-PATENT-APPL-SN-617770 US-PATENT-CLASS-13-26 US-PATENT-3,470,304	N71-23527*	c 06	NASA-CASE-XLE-01997 US-PATENT-APPL-SN-427990 US-PATENT-CLASS-23-230 US-PATENT-3,472,625	N71-23810*	c 15	NASA-CASE-XLE-05033 US-PATENT-APPL-SN-510474 US-PATENT-CLASS-252-12 US-PATENT-3,466,243
N71-23268*	c 14	NASA-CASE-XLA-01907 US-PATENT-APPL-SN-335441 US-PATENT-CLASS-356-72	N71-23543*	c 10	NASA-CASE-XMS-00913 US-PATENT-APPL-SN-416945 US-PATENT-CLASS-317-31	N71-23811*	c 15	NASA-CASE-XNP-05297 US-PATENT-APPL-SN-640458 US-PATENT-CLASS-72-354

N71-23812*	c 15	US-PATENT-3,443,412 NASA-CASE-XMF-07808 US-PATENT-APPL-SN-684178 US-PATENT-CLASS-308-2 US-PATENT-3,463,563	N71-24232*	c 14	US-PATENT-3,434,855 NASA-CASE-XAC-04458 US-PATENT-APPL-SN-534975 US-PATENT-CLASS-73-400 US-PATENT-3,392,586	N71-24623*	c 05	US-PATENT-CLASS-324-77 US-PATENT-3,548,107 NASA-CASE-XMS-09635 US-PATENT-APPL-SN-586329 US-PATENT-CLASS-2-2.1 US-PATENT-3,516,091
N71-23815*	c 15	NASA-CASE-XMF-07069 US-PATENT-APPL-SN-672382 US-PATENT-CLASS-219-125 US-PATENT-3,469,068	N71-24233*	c 14	NASA-CASE-XGS-04478 US-PATENT-APPL-SN-566717 US-PATENT-CLASS-73-88.5 US-PATENT-3,460,378	N71-24624*	c 07	NASA-CASE-GSC-10131-1 US-PATENT-APPL-SN-754055 US-PATENT-CLASS-340-172.5 US-PATENT-3,546,684
N71-23816*	c 15	NASA-CASE-XLE-03803 US-PATENT-APPL-SN-505765 US-PATENT-CLASS-220-9 US-PATENT-3,392,865	N71-24234*	c 14	NASA-CASE-XMF-10968 US-PATENT-APPL-SN-644447 US-PATENT-CLASS-73-15.6 US-PATENT-3,469,437	N71-24625*	c 07	NASA-CASE-XMS-09610 US-PATENT-APPL-SN-766170 US-PATENT-CLASS-343-113 US-PATENT-3,540,054
N71-23817*	c 15	NASA-CASE-XLE-06773 US-PATENT-APPL-SN-646124 US-PATENT-CLASS-72-467 US-PATENT-3,469,436	N71-24276*	c 33	NASA-CASE-XLA-02059 US-PATENT-APPL-SN-576182 US-PATENT-CLASS-165-12 US-PATENT-3,406,742	N71-24633*	c 08	NASA-CASE-NPO-10567 US-PATENT-APPL-SN-679055 US-PATENT-CLASS-235-153 US-PATENT-3,517,171
N71-23828*	c 17	NASA-CASE-XMF-02303 US-PATENT-APPL-SN-453229 US-PATENT-CLASS-148-6.20 US-PATENT-3,416,975	N71-24285*	c 32	NASA-CASE-XMF-02392 US-PATENT-APPL-SN-596735 US-PATENT-CLASS-73-49.2 US-PATENT-3,399,574	N71-24650*	c 08	NASA-CASE-NPO-10150 US-PATENT-APPL-SN-660843 US-PATENT-CLASS-340-347 US-PATENT-3,537,103
N71-23912*	c 31	NASA-CASE-XMF-05941 US-PATENT-APPL-SN-653277 US-PATENT-CLASS-244-1 US-PATENT-3,443,773	N71-24315*	c 31	NASA-CASE-XLA-04901 US-PATENT-APPL-SN-586325 US-PATENT-CLASS-244-1 US-PATENT-3,405,887	N71-24679*	c 15	NASA-CASE-XNP-10475 US-PATENT-APPL-SN-763868 US-PATENT-CLASS-72-369 US-PATENT-3,546,917
N71-23968*	c 28	NASA-CASE-XLE-04857 US-PATENT-APPL-SN-621742 US-PATENT-CLASS-239-127.1 US-PATENT-3,460,759	N71-24321*	c 28	NASA-CASE-XNP-03692 US-PATENT-APPL-SN-640787 US-PATENT-CLASS-60-263 US-PATENT-3,443,384	N71-24681*	c 03	NASA-CASE-XLE-08569-2 US-PATENT-APPL-SN-829825 US-PATENT-CLASS-29-572 US-PATENT-3,541,679
N71-23971*	c 32	NASA-CASE-XAC-05632 US-PATENT-APPL-SN-568355 US-PATENT-CLASS-244-77 US-PATENT-3,412,961	N71-24583*	c 07	NASA-CASE-NPO-10096 US-PATENT-APPL-SN-730700 US-PATENT-CLASS-329-140 US-PATENT-3,533,001	N71-24692*	c 12	NASA-CASE-XFR-02007 US-PATENT-APPL-SN-378080 US-PATENT-CLASS-73-389 US-PATENT-3,273,399
N71-23976*	c 23	NASA-CASE-XLA-01987 US-PATENT-APPL-SN-542713 US-PATENT-CLASS-346-107 US-PATENT-3,392,403	N71-24595*	c 09	NASA-CASE-GSC-10021-1 US-PATENT-APPL-SN-790420 US-PATENT-CLASS-343-7.5 US-PATENT-3,540,045	N71-24693*	c 14	NASA-CASE-XMF-04415 US-PATENT-APPL-SN-644446 US-PATENT-CLASS-33-174 US-PATENT-3,360,864
N71-24035*	c 31	NASA-CASE-XLA-01027 US-PATENT-APPL-SN-494283 US-PATENT-CLASS-52-272 US-PATENT-3,416,274	N71-24596*	c 09	NASA-CASE-XNP-01306-2 US-PATENT-APPL-SN-684083 US-PATENT-CLASS-328-133 US-PATENT-3,509,475	N71-24694*	c 15	NASA-CASE-GSC-10306-1 US-PATENT-APPL-SN-789278 US-PATENT-CLASS-248-358 US-PATENT-3,537,672
N71-24042*	c 15	NASA-CASE-XNP-04731 US-PATENT-APPL-SN-534966 US-PATENT-CLASS-103-48 US-PATENT-3,367,271	N71-24597*	c 09	NASA-CASE-ARC-10132-1 US-PATENT-APPL-SN-759460 US-PATENT-CLASS-73-398 US-PATENT-3,545,275	N71-24695*	c 15	NASA-CASE-XNP-06936 US-PATENT-APPL-SN-640786 US-PATENT-CLASS-318-382 US-PATENT-3,487,281
N71-24043*	c 15	NASA-CASE-XKS-03338 US-PATENT-APPL-SN-547072 US-PATENT-CLASS-89-1.806 US-PATENT-3,415,156	N71-24599*	c 15	NASA-CASE-MS-12052-1 US-PATENT-APPL-SN-770371 US-PATENT-CLASS-254-150 US-PATENT-CLASS-254-173 US-PATENT-CLASS-254-186	N71-24696*	c 15	NASA-CASE-NPO-10173 US-PATENT-APPL-SN-796360 US-PATENT-CLASS-310-101 US-PATENT-3,535,570
N71-24044*	c 15	NASA-CASE-XMF-06888 US-PATENT-APPL-SN-591000 US-PATENT-CLASS-62-40 US-PATENT-3,415,069	N71-24600*	c 15	US-PATENT-3,545,725 NASA-CASE-XGS-08718 US-PATENT-APPL-SN-785611 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-150 US-PATENT-CLASS-74-2 US-PATENT-CLASS-89-1.5 US-PATENT-CLASS-9-9 US-PATENT-3,540,676	N71-24717*	c 09	NASA-CASE-XMF-08804 US-PATENT-APPL-SN-683606 US-PATENT-CLASS-324-181 US-PATENT-3,543,159
N71-24045*	c 15	NASA-CASE-XGS-04548 US-PATENT-APPL-SN-672383 US-PATENT-CLASS-74-100 US-PATENT-3,460,397	N71-24605*	c 03	US-PATENT-CLASS-254-150 US-PATENT-CLASS-254-173 US-PATENT-CLASS-254-186 US-PATENT-CLASS-9-9 US-PATENT-3,540,676 NASA-CASE-XNP-04758 US-PATENT-APPL-SN-557861 US-PATENT-CLASS-320-17 US-PATENT-3,413,536	N71-24718*	c 03	NASA-CASE-MS-10960-1 US-PATENT-APPL-SN-751198 US-PATENT-CLASS-204-305 US-PATENT-3,547,801
N71-24046*	c 15	NASA-CASE-XLE-10337 US-PATENT-APPL-SN-594633 US-PATENT-CLASS-252-26 US-PATENT-3,391,080	N71-24606*	c 05	US-PATENT-CLASS-89-1.5 US-PATENT-CLASS-9-9 US-PATENT-3,540,676 NASA-CASE-XKS-10804 US-PATENT-APPL-SN-691909 US-PATENT-CLASS-35-17 US-PATENT-3,508,347	N71-24719*	c 03	NASA-CASE-GSC-10487-1 US-PATENT-APPL-SN-828983 US-PATENT-CLASS-320-39 US-PATENT-3,541,422
N71-24047*	c 15	NASA-CASE-XGS-03120 US-PATENT-APPL-SN-485958 US-PATENT-CLASS-156-3 US-PATENT-3,470,043	N71-24607*	c 06	US-PATENT-CLASS-35-17 US-PATENT-3,508,347 NASA-CASE-XNP-09699 US-PATENT-APPL-SN-711972 US-PATENT-CLASS-73-17 US-PATENT-3,546,920	N71-24725*	c 23	NASA-CASE-GSC-10188-1 US-PATENT-APPL-SN-791888 US-PATENT-CLASS-62-384 US-PATENT-3,545,226
N71-24074*	c 16	NASA-CASE-XLA-03375 US-PATENT-APPL-SN-512562 US-PATENT-CLASS-356-104 US-PATENT-3,446,558	N71-24607*	c 06	US-PATENT-CLASS-73-17 US-PATENT-3,546,920 NASA-CASE-XMF-06092 US-PATENT-APPL-SN-550088 US-PATENT-CLASS-178-7.1 US-PATENT-3,470,318	N71-24728*	c 05	NASA-CASE-MS-12243-1 US-PATENT-APPL-SN-857445 US-PATENT-CLASS-244-1 US-PATENT-3,537,668
N71-24142*	c 17	NASA-CASE-XLE-06969 US-PATENT-APPL-SN-655675 US-PATENT-CLASS-148-126 US-PATENT-3,463,679	N71-24612*	c 07	US-PATENT-CLASS-178-7.1 US-PATENT-3,470,318 NASA-CASE-NPO-10851 US-PATENT-APPL-SN-805406 US-PATENT-CLASS-325-325 US-PATENT-3,551,816	N71-24729*	c 05	NASA-CASE-MS-13282-1 US-PATENT-APPL-SN-8498 US-PATENT-CLASS-128-2.1 US-PATENT-3,548,812
N71-24145*	c 33	NASA-CASE-XLE-03432 US-PATENT-APPL-SN-559349 US-PATENT-CLASS-13-35 US-PATENT-3,409,730	N71-24613*	c 07	US-PATENT-CLASS-325-325 US-PATENT-3,551,816 NASA-CASE-XKS-09340 US-PATENT-APPL-SN-666555 US-PATENT-CLASS-343-703 US-PATENT-3,540,056	N71-24730*	c 05	NASA-CASE-XMS-09637-1 US-PATENT-APPL-SN-785710 US-PATENT-CLASS-2-2.1 US-PATENT-3,537,107
N71-24147*	c 05	NASA-CASE-XMS-10269 US-PATENT-APPL-SN-590158 US-PATENT-CLASS-165-46 US-PATENT-3,425,486	N71-24614*	c 07	US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105 NASA-CASE-GSC-10118-1 US-PATENT-APPL-SN-783375 US-PATENT-CLASS-179-15 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-100 US-PATENT-3,546,386	N71-24736*	c 28	NASA-CASE-XLE-03157 US-PATENT-APPL-SN-591014 US-PATENT-CLASS-60-240 US-PATENT-3,408,816
N71-24164*	c 15	NASA-CASE-XLA-01494 US-PATENT-APPL-SN-499122 US-PATENT-CLASS-156-545 US-PATENT-3,416,988	N71-24618*	c 09	US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105 NASA-CASE-FRC-10029 US-PATENT-APPL-SN-760389 US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105	N71-24738*	c 05	NASA-CASE-ARC-10100-1 US-PATENT-APPL-SN-797058 US-PATENT-CLASS-128-24 US-PATENT-CLASS-128-25 US-PATENT-3,550,585
N71-24170*	c 16	NASA-CASE-XLA-04295 US-PATENT-APPL-SN-546149 US-PATENT-CLASS-356-107 US-PATENT-3,468,609	N71-24621*	c 07	US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105 NASA-CASE-GSC-10118-1 US-PATENT-APPL-SN-783375 US-PATENT-CLASS-179-15 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-100 US-PATENT-3,546,386	N71-24739*	c 06	NASA-CASE-ARC-10098-1 US-PATENT-APPL-SN-702967 US-PATENT-CLASS-260-2.5 US-PATENT-3,549,564
N71-24183*	c 18	NASA-CASE-XGS-04799 US-PATENT-APPL-SN-452944 US-PATENT-CLASS-106-84 US-PATENT-3,416,939	N71-24622*	c 07	US-PATENT-CLASS-10388 US-PATENT-APPL-SN-725432 US-PATENT-CLASS-179-15	N71-24740*	c 06	NASA-CASE-XMF-03074 US-PATENT-APPL-SN-593595 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,971
N71-24184*	c 18	NASA-CASE-XNP-02139 US-PATENT-APPL-SN-430777 US-PATENT-CLASS-106-84				N71-24741*	c 07	NASA-CASE-NPO-10118

		US-PATENT-APPL-SN-704465			US-PATENT-APPL-SN-698630	N71-24910*	c 15	NASA-CASE-ERC-10045
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-333-83			US-PATENT-APPL-SN-763685
		US-PATENT-3,541,314			US-PATENT-3,541,479			US-PATENT-CLASS-73-40.7
N71-24742*	c 07	NASA-CASE-NPO-10140	N71-24842*	c 09	NASA-CASE-MSC-12209	N71-24911*	c 17	NASA-CASE-XLE-04946
		US-PATENT-APPL-SN-691737			US-PATENT-APPL-SN-881039			US-PATENT-3,548,636
		US-PATENT-CLASS-187-7.1			US-PATENT-CLASS-343-797			US-PATENT-APPL-SN-605093
		US-PATENT-3,541,250			US-PATENT-3,546,705			US-PATENT-CLASS-118-308
N71-24750*	c 31	NASA-CASE-XGS-01654	N71-24843*	c 09	NASA-CASE-XMF-06617			US-PATENT-3,472,202
		US-PATENT-APPL-SN-434148			US-PATENT-APPL-SN-656993	N71-24934*	c 18	NASA-CASE-NPO-10051
		US-PATENT-CLASS-102-50			US-PATENT-CLASS-324-71			US-PATENT-APPL-SN-711898
		US-PATENT-3,282,541			US-PATENT-3,541,439			US-PATENT-CLASS-73-38
N71-24798*	c 10	NASA-CASE-XLE-03061-1	N71-24844*	c 10	NASA-CASE-NPO-10169			US-PATENT-3,548,633
		US-PATENT-APPL-SN-632152			US-PATENT-APPL-SN-701733	N71-24948*	c 21	NASA-CASE-ERC-10090
		US-PATENT-CLASS-340-412			US-PATENT-CLASS-328-171			US-PATENT-APPL-SN-811542
		US-PATENT-3,546,694			US-PATENT-3,541,459			US-PATENT-CLASS-343-112
N71-24799*	c 10	NASA-CASE-XNP-06505	N71-24857*	c 23	NASA-CASE-XMS-06056-1			US-PATENT-3,550,129
		US-PATENT-APPL-SN-562933			US-PATENT-APPL-SN-532006	N71-24964*	c 11	NASA-CASE-NPO-10141
		US-PATENT-CLASS-307-254			US-PATENT-CLASS-350-189			US-PATENT-APPL-SN-673227
		US-PATENT-3,501,648			US-PATENT-3,472,577			US-PATENT-CLASS-62-55.5
N71-24800*	c 09	NASA-CASE-ERC-10075	N71-24858*	c 33	NASA-CASE-MFS-14253			US-PATENT-3,443,390
		US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-709622	N71-24984*	c 15	NASA-CASE-MFS-14971
		US-PATENT-CLASS-321-45			US-PATENT-CLASS-161-69			US-PATENT-APPL-SN-827579
		US-PATENT-3,539,905			US-PATENT-3,551,266			US-PATENT-CLASS-74-468
N71-24803*	c 09	NASA-CASE-NPO-10242	N71-24861*	c 10	NASA-CASE-XMF-05195	N71-24985*	c 11	US-PATENT-3,541,875
		US-PATENT-APPL-SN-749181			US-PATENT-APPL-SN-785595			NASA-CASE-KSC-10126
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-318-599			US-PATENT-APPL-SN-845973
		US-PATENT-3,541,346			US-PATENT-3,523,228			US-PATENT-CLASS-73-15
N71-24804*	c 09	NASA-CASE-GSC-10299-1	N71-24862*	c 10	NASA-CASE-FRC-10010			US-PATENT-3,545,252
		US-PATENT-APPL-SN-836367			US-PATENT-APPL-SN-771937	N71-25139*	c 10	NASA-CASE-MFS-10068
		US-PATENT-CLASS-343-100			US-PATENT-CLASS-307-235			US-PATENT-APPL-SN-700541
		US-PATENT-3,540,050			US-PATENT-3,543,050			US-PATENT-CLASS-321-9
N71-24805*	c 09	NASA-CASE-XMF-06892	N71-24863*	c 10	NASA-CASE-XMF-02966			US-PATENT-3,487,288
		US-PATENT-APPL-SN-757875			US-PATENT-APPL-SN-560968	N71-25213*	c 28	NASA-CASE-GSC-10709-1
		US-PATENT-CLASS-318-318			US-PATENT-CLASS-324-70			US-PATENT-APPL-SN-791288
		US-PATENT-3,546,553			US-PATENT-3,406,336			US-PATENT-CLASS-60-202
N71-24806*	c 09	NASA-CASE-NPO-10198	N71-24864*	c 14	NASA-CASE-XLE-04503			US-PATENT-3,545,208
		US-PATENT-APPL-SN-723804			US-PATENT-APPL-SN-606463	N71-25351*	c 33	NASA-CASE-MFS-14023
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-250-225			US-PATENT-APPL-SN-795217
		US-PATENT-3,550,023			US-PATENT-3,546,471			US-PATENT-CLASS-161-161
N71-24807*	c 09	NASA-CASE-MFS-14114-2	N71-24865*	c 15	NASA-CASE-XMF-05114-3			US-PATENT-CLASS-220-9
		US-PATENT-APPL-SN-854815			US-PATENT-APPL-SN-837378			US-PATENT-CLASS-52-249
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-72-56			US-PATENT-CLASS-52-404
		US-PATENT-CLASS-165-107			US-PATENT-3,540,250			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-165-138	N71-24866*	c 23	NASA-CASE-ERC-10001			US-PATENT-3,540,615
		US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-712099	N71-25353*	c 33	NASA-CASE-MFS-20355
		US-PATENT-3,537,515			US-PATENT-CLASS-350-310			US-PATENT-APPL-SN-845974
N71-24808*	c 09	NASA-CASE-XNP-08880			US-PATENT-3,540,802			US-PATENT-CLASS-165-104
		US-PATENT-APPL-SN-605094	N71-24875*	c 15	NASA-CASE-XLA-06199			US-PATENT-CLASS-165-105
		US-PATENT-CLASS-333-98			US-PATENT-APPL-SN-702911			US-PATENT-CLASS-165-133
		US-PATENT-3,416,106			US-PATENT-CLASS-148-6.11			US-PATENT-CLASS-219-378
N71-24809*	c 14	NASA-CASE-XNP-08961			US-PATENT-3,540,942			US-PATENT-CLASS-219-530
		US-PATENT-APPL-SN-661170	N71-24876*	c 33	NASA-CASE-XNP-05524			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-250-84			US-PATENT-APPL-SN-250567			US-PATENT-3,548,930
		US-PATENT-3,487,216			US-PATENT-CLASS-165-2	N71-25360*	c 32	NASA-CASE-XLA-08530
N71-24813*	c 31	NASA-CASE-XAC-06029-1			US-PATENT-3,270,802			US-PATENT-APPL-SN-808577
		US-PATENT-APPL-SN-588651	N71-24890*	c 08	NASA-CASE-XKS-06167			US-PATENT-CLASS-73-90
		US-PATENT-CLASS-343-100			US-PATENT-APPL-SN-649076			US-PATENT-3,546,931
		US-PATENT-3,540,048			US-PATENT-CLASS-235-155	N71-25434*	c 31	NASA-CASE-MSC-13047-1
N71-24828*	c 16	NASA-CASE-XAC-10770-1			US-PATENT-3,535,497			US-PATENT-APPL-SN-850586
		US-PATENT-APPL-SN-690997	N71-24891*	c 08	NASA-CASE-XNP-09759			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-606462			US-PATENT-CLASS-244-113
		US-PATENT-3,547,540			US-PATENT-CLASS-235-92			US-PATENT-CLASS-244-138
N71-24830*	c 17	NASA-CASE-XNP-04148			US-PATENT-3,541,312			US-PATENT-3,547,376
		US-PATENT-APPL-SN-536210	N71-24892*	c 09	NASA-CASE-NPO-10716	N71-25490*	c 26	NASA-CASE-ERC-10088
		US-PATENT-CLASS-204-38			US-PATENT-APPL-SN-851394			US-PATENT-APPL-SN-760927
		US-PATENT-3,472,742			US-PATENT-CLASS-307-104			US-PATENT-CLASS-73-141
N71-24831*	c 16	NASA-CASE-NPO-10548			US-PATENT-CLASS-317-123			US-PATENT-3,537,305
		US-PATENT-APPL-SN-775072			US-PATENT-CLASS-317-148.5	N71-25555*	c 24	NASA-CASE-XNP-09469
		US-PATENT-CLASS-330-4			US-PATENT-3,549,955			US-PATENT-APPL-SN-645573
		US-PATENT-3,486,123	N71-24893*	c 09	NASA-CASE-ERC-10125			US-PATENT-CLASS-204-168
N71-24832*	c 16	NASA-CASE-ERC-10178			US-PATENT-APPL-SN-773029			US-PATENT-3,540,989
		US-PATENT-APPL-SN-800973			US-PATENT-CLASS-323-56	N71-25865*	c 10	NASA-CASE-KSC-10002
		US-PATENT-CLASS-331-94.5			US-PATENT-3,541,428			US-PATENT-APPL-SN-782956
		US-PATENT-3,550,034	N71-24895*	c 15	NASA-CASE-XLA-07473			US-PATENT-CLASS-178-69.5
N71-24833*	c 15	NASA-CASE-XMF-03793			US-PATENT-APPL-SN-839935			US-PATENT-3,567,861
		US-PATENT-APPL-SN-453225			US-PATENT-CLASS-318-265	N71-25866*	c 09	NASA-CASE-ARC-10003-1
		US-PATENT-CLASS-72-56			US-PATENT-3,546,552			US-PATENT-APPL-SN-717822
		US-PATENT-3,360,972	N71-24896*	c 15	NASA-CASE-ERC-10034			US-PATENT-CLASS-178-66
N71-24834*	c 15	NASA-CASE-XNP-05634			US-PATENT-APPL-SN-763706			US-PATENT-CLASS-179-100.2
		US-PATENT-APPL-SN-605096			US-PATENT-CLASS-250-43.5			US-PATENT-3,549,799
		US-PATENT-CLASS-73-95			US-PATENT-3,549,882	N71-25881*	c 18	NASA-CASE-XGS-05180
		US-PATENT-3,460,379	N71-24897*	c 15	NASA-CASE-XLA-03538			US-PATENT-APPL-SN-721607
N71-24835*	c 15	NASA-CASE-NPO-10123			US-PATENT-APPL-SN-749149			US-PATENT-CLASS-260-37
		US-PATENT-APPL-SN-731388			US-PATENT-CLASS-294-83			US-PATENT-3,567,677
		US-PATENT-CLASS-128-272			US-PATENT-3,508,779	N71-25882*	c 10	NASA-CASE-GSC-10022-1
		US-PATENT-CLASS-128-275			US-PATENT-APPL-SN-830715			US-PATENT-APPL-SN-785546
		US-PATENT-3,540,449			US-PATENT-CLASS-285-314			US-PATENT-CLASS-331-113
N71-24836*	c 15	NASA-CASE-XLE-08917-2			US-PATENT-CLASS-285-317			US-PATENT-3,559,096
		US-PATENT-APPL-SN-852131			US-PATENT-CLASS-285-38	N71-25892*	c 14	NASA-CASE-XLA-04555-1
		US-PATENT-CLASS-72-60			US-PATENT-CLASS-285-406			US-PATENT-APPL-SN-594584
		US-PATENT-3,541,825			US-PATENT-CLASS-285-406			US-PATENT-CLASS-148-13
N71-24840*	c 07	NASA-CASE-NPO-10649			US-PATENT-3,545,792			US-PATENT-3,468,727
		US-PATENT-APPL-SN-795182	N71-24904*	c 09	NASA-CASE-MFS-20385	N71-25899*	c 10	NASA-CASE-LEW-10345-1
		US-PATENT-CLASS-325-113			US-PATENT-APPL-SN-853716			US-PATENT-APPL-SN-805298
		US-PATENT-3,541,450			US-PATENT-CLASS-310-10			US-PATENT-CLASS-137-81.5
N71-24841*	c 09	NASA-CASE-XNP-09771			US-PATENT-3,541,361			US-PATENT-CLASS-235-201

N71-25900*	c 10	US-PATENT-3,568,702	N71-26136*	c 14	US-PATENT-3,564,401	N71-26293*	c 05	US-PATENT-APPL-SN-719870
		NASA-CASE-ERC-10032			NASA-CASE-XLA-01782			US-PATENT-CLASS-325-67
		US-PATENT-APPL-SN-757857			US-PATENT-APPL-SN-576792			US-PATENT-3,553,586
		US-PATENT-CLASS-333-30			US-PATENT-CLASS-73-15.6			NASA-CASE-XFR-07658-1
N71-25901*	c 14	US-PATENT-CLASS-333-72	N71-26137*	c 14	US-PATENT-3,472,060	N71-26294*	c 15	US-PATENT-APPL-SN-588324
		US-PATENT-3,568,103			NASA-CASE-LAR-10305			US-PATENT-CLASS-128-2.06
		NASA-CASE-XLA-02810			US-PATENT-APPL-SN-811037			US-PATENT-3,426,746
		US-PATENT-APPL-SN-764252			US-PATENT-CLASS-324-0.5			NASA-CASE-XNP-02862-1
N71-25903*	c 17	US-PATENT-CLASS-250-43.5	N71-26142*	c 10	US-PATENT-CLASS-324-58.5	N71-26312*	c 15	US-PATENT-APPL-SN-556830
		US-PATENT-CLASS-250-83.3			US-PATENT-3,562,631			US-PATENT-CLASS-277-13
		US-PATENT-CLASS-340-233			NASA-CASE-NPO-10302			US-PATENT-3,468,548
		US-PATENT-CLASS-340-285			US-PATENT-APPL-SN-848811			NASA-CASE-XNP-01263-2
N71-25903*	c 17	US-PATENT-3,569,710	N71-26145*	c 15	US-PATENT-CLASS-343-768	N71-26326*	c 10	US-PATENT-APPL-SN-718279
		NASA-CASE-XLA-08966-1			US-PATENT-3,553,704			US-PATENT-CLASS-287-189.365
		US-PATENT-APPL-SN-570678			NASA-CASE-FRC-10005			US-PATENT-3,481,638
		US-PATENT-CLASS-204-33			US-PATENT-APPL-SN-756266			NASA-CASE-NPO-10143
N71-25914*	c 16	US-PATENT-3,468,765	N71-26148*	c 15	US-PATENT-CLASS-33-189	N71-26331*	c 10	US-PATENT-APPL-SN-692331
		NASA-CASE-XLA-03410			US-PATENT-3,562,919			US-PATENT-CLASS-58-24
		US-PATENT-APPL-SN-512561			NASA-CASE-XMF-05114-2			US-PATENT-3,472,019
		US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-837377			NASA-CASE-XNP-10854
N71-25917*	c 10	US-PATENT-3,469,087	N71-26153*	c 18	US-PATENT-CLASS-72-56	N71-26333*	c 05	US-PATENT-APPL-SN-668248
		NASA-CASE-NPO-10595			US-PATENT-3,555,867			US-PATENT-CLASS-330-31
		US-PATENT-APPL-SN-771760			NASA-CASE-XLE-03940			US-PATENT-3,482,179
		US-PATENT-CLASS-340-347			US-PATENT-APPL-SN-539255			NASA-CASE-XMS-09652-1
N71-25929*	c 06	US-PATENT-3,569,956	N71-26154*	c 16	US-PATENT-CLASS-148-126	N71-26334*	c 10	US-PATENT-APPL-SN-618969
		NASA-CASE-NPO-10596			US-PATENT-3,472,709			US-PATENT-CLASS-2-6
		US-PATENT-APPL-SN-756381			NASA-CASE-ERC-10020			US-PATENT-3,473,165
		US-PATENT-CLASS-260-2.5			US-PATENT-APPL-SN-709399			NASA-CASE-XLA-02619
N71-25950*	c 10	US-PATENT-3,557,027	N71-26155*	c 18	US-PATENT-CLASS-350-3.3	N71-26339*	c 10	US-PATENT-APPL-SN-796691
		NASA-CASE-XGS-06226			US-PATENT-3,540,790			US-PATENT-CLASS-317-DIG.3
		US-PATENT-APPL-SN-676387			NASA-CASE-LAR-10373-1			US-PATENT-CLASS-317-153
		US-PATENT-CLASS-331-113			US-PATENT-APPL-SN-761007			US-PATENT-CLASS-340-235
N71-25975*	c 15	US-PATENT-3,466,570	N71-26161*	c 14	US-PATENT-CLASS-260-2.5	N71-26346*	c 15	US-PATENT-3,575,641
		NASA-CASE-XMS-10660-1			US-PATENT-3,481,887			NASA-CASE-NPO-10185
		US-PATENT-APPL-SN-797056			NASA-CASE-XLA-08254			US-PATENT-APPL-SN-723805
		US-PATENT-CLASS-24-205.17			US-PATENT-APPL-SN-867843			US-PATENT-CLASS-73-432
N71-25999*	c 09	US-PATENT-3,469,289	N71-26162*	c 15	US-PATENT-CLASS-73-12	N71-26374*	c 10	US-PATENT-3,472,080
		NASA-CASE-XGS-05290			US-PATENT-CLASS-73-79			NASA-CASE-XLE-05641-1
		US-PATENT-APPL-SN-754019			US-PATENT-3,576,127			US-PATENT-APPL-SN-605091
		US-PATENT-CLASS-310-168			NASA-CASE-MS-15474-1			US-PATENT-CLASS-72-61
N71-26000*	c 09	US-PATENT-CLASS-310-254	N71-26173*	c 28	US-PATENT-APPL-SN-878731	N71-26387*	c 12	US-PATENT-3,461,700
		US-PATENT-CLASS-318-138			US-PATENT-CLASS-24-263			NASA-CASE-GSC-11367
		US-PATENT-CLASS-318-254			US-PATENT-3,564,564			US-PATENT-APPL-SN-675238
		US-PATENT-3,569,804			NASA-CASE-LEW-10689-1			US-PATENT-CLASS-331-18
N71-26002*	c 09	US-PATENT-APPL-SN-640783	N71-26181*	c 07	US-PATENT-APPL-SN-830978	N71-26414*	c 10	US-PATENT-3,484,712
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-60-202			NASA-CASE-XLA-05541
		US-PATENT-3,466,459			US-PATENT-3,552,125			US-PATENT-APPL-SN-700986
		NASA-CASE-XMS-04213-1			NASA-CASE-MS-12223-1			US-PATENT-CLASS-73-301
N71-26084*	c 03	US-PATENT-APPL-SN-607484	N71-26182*	c 09	US-PATENT-APPL-SN-839941	N71-26415*	c 10	US-PATENT-3,473,379
		US-PATENT-CLASS-128-2.1			US-PATENT-CLASS-179-1			NASA-CASE-XMF-04958-1
		US-PATENT-3,468,303			US-PATENT-3,555,192			US-PATENT-APPL-SN-448365
		NASA-CASE-LEW-11358			NASA-CASE-NPO-10625			US-PATENT-CLASS-321-69
N71-26085*	c 10	US-PATENT-APPL-SN-787906	N71-26185*	c 15	US-PATENT-APPL-SN-856415	N71-26418*	c 10	US-PATENT-3,434,037
		US-PATENT-CLASS-136-6			US-PATENT-CLASS-313-236			NASA-CASE-NPO-10003
		US-PATENT-3,554,806			US-PATENT-CLASS-313-237			US-PATENT-APPL-SN-638192
		NASA-CASE-GSC-10735-1			US-PATENT-CLASS-60-23			US-PATENT-CLASS-330-13
N71-26092*	c 09	US-PATENT-CLASS-318-258	N71-26189*	c 15	US-PATENT-3,562,575	N71-26434*	c 10	US-PATENT-3,461,393
		US-PATENT-3,501,684			NASA-CASE-MFS-14711			NASA-CASE-XGS-04224
		NASA-CASE-XLA-04251			US-PATENT-APPL-SN-774266			US-PATENT-APPL-SN-568364
		US-PATENT-APPL-SN-657742			US-PATENT-CLASS-55-75			US-PATENT-CLASS-340-174
N71-26100*	c 18	US-PATENT-CLASS-117-104	N71-26199*	c 14	US-PATENT-3,557,534	N71-26474*	c 14	US-PATENT-3,483,535
		US-PATENT-3,553,002			NASA-CASE-XLE-09527-2			NASA-CASE-XNP-01466
		NASA-CASE-NPO-10231			US-PATENT-APPL-SN-840870			US-PATENT-APPL-SN-487940
		US-PATENT-APPL-SN-701767			US-PATENT-CLASS-308-187			US-PATENT-CLASS-340-174
N71-26101*	c 07	US-PATENT-CLASS-343-786	N71-26206*	c 23	US-PATENT-3,561,828	N71-26475*	c 14	US-PATENT-3,461,437
		US-PATENT-3,534,376			NASA-CASE-NPO-10691			NASA-CASE-XMF-03844-1
		NASA-CASE-XNP-06611			US-PATENT-APPL-SN-816988			US-PATENT-APPL-SN-601229
		US-PATENT-APPL-SN-593607			US-PATENT-CLASS-73-61			US-PATENT-CLASS-95-44
N71-26102*	c 07	US-PATENT-CLASS-178-6.6	N71-26243*	c 15	US-PATENT-3,566,676	N71-26531*	c 10	US-PATENT-3,472,140
		US-PATENT-3,474,192			NASA-CASE-XGS-08269			NASA-CASE-XNP-09701
		NASA-CASE-XNP-04623			US-PATENT-APPL-SN-787393			US-PATENT-APPL-SN-584015
		US-PATENT-APPL-SN-510150			US-PATENT-CLASS-356-76			US-PATENT-CLASS-250-83.3
N71-26103*	c 10	US-PATENT-CLASS-340-146.1	N71-26244*	c 14	US-PATENT-3,554,647	N71-26537*	c 31	US-PATENT-3,461,290
		US-PATENT-3,474,413			NASA-CASE-MS-10959			NASA-CASE-GSC-10413
		NASA-CASE-LAR-10249-1			US-PATENT-APPL-SN-725719			US-PATENT-APPL-SN-789043
		US-PATENT-APPL-SN-835060			US-PATENT-CLASS-188-1			US-PATENT-CLASS-317-20
N71-26110*	c 02	US-PATENT-CLASS-244-42	N71-26266*	c 14	US-PATENT-3,420,338	N71-26577*	c 10	US-PATENT-CLASS-317-33
		US-PATENT-3,576,301			NASA-CASE-XMS-06497			US-PATENT-3,555,361
		NASA-CASE-MFS-20075			US-PATENT-APPL-SN-617778			NASA-CASE-GSC-10556-1
		US-PATENT-APPL-SN-835059			US-PATENT-CLASS-324-115			NASA-CASE-GSC-10557-1
N71-26133*	c 09	US-PATENT-CLASS-317-101	N71-26285*	c 18	US-PATENT-3,464,012	N71-26544*	c 10	US-PATENT-APPL-SN-808193
		US-PATENT-CLASS-339-17			NASA-CASE-XNP-09830			US-PATENT-CLASS-244-1
		US-PATENT-3,575,638			US-PATENT-APPL-SN-632165			US-PATENT-CLASS-308-1
		NASA-CASE-XKS-07953			US-PATENT-CLASS-324-0.5			US-PATENT-CLASS-74-5.12
N71-26134*	c 15	US-PATENT-CLASS-340-146.1	N71-26291*	c 07	US-PATENT-3,474,328	N71-26546*	c 12	US-PATENT-3,554,466
		US-PATENT-3,553,904			NASA-CASE-MS-12109			NASA-CASE-NPO-10344
		NASA-CASE-XAC-03740			US-PATENT-APPL-SN-889376			US-PATENT-APPL-SN-732921
		US-PATENT-APPL-SN-480211			US-PATENT-CLASS-112-402			US-PATENT-CLASS-340-347
N71-26135*	c 14	US-PATENT-CLASS-324-43	N71-26292*	c 07	US-PATENT-CLASS-2-275	N71-26546*	c 12	US-PATENT-3,566,396
		US-PATENT-CLASS-324-43			US-PATENT-CLASS-2-81			NASA-CASE-FRC-10022
		US-PATENT-CLASS-324-43			US-PATENT-3,563,198			US-PATENT-APPL-SN-763729
		US-PATENT-CLASS-324-43			NASA-CASE-HQN-10541-1			US-PATENT-CLASS-73-194

N71-26579*	c 07	US-PATENT-3,566,268 NASA-CASE-XMS-06740-1 US-PATENT-APPL-SN-554277 US-PATENT-CLASS-178-6 US-PATENT-3,470,313	N71-26787*	c 09	US-PATENT-APPL-SN-804172 US-PATENT-CLASS-313-63 US-PATENT-CLASS-315-111 US-PATENT-CLASS-60-202 US-PATENT-3,576,107	N71-27094*	c 28	NASA-CASE-GSC-10710-1 US-PATENT-APPL-SN-828909 US-PATENT-CLASS-73-117.4 US-PATENT-3,572,104
N71-26611*	c 15	NASA-CASE-MSC-11817-1 US-PATENT-APPL-SN-7668 US-PATENT-CLASS-165-44 US-PATENT-CLASS-165-86 US-PATENT-CLASS-188-88 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-57 US-PATENT-3,563,307	N71-26788*	c 14	NASA-CASE-XKS-05932 US-PATENT-APPL-SN-752729 US-PATENT-CLASS-240-11.2 US-PATENT-CLASS-240-11.4 US-PATENT-CLASS-240-51.11 US-PATENT-CLASS-313-22 US-PATENT-3,564,234	N71-27095*	c 28	NASA-CASE-MFS-20325 US-PATENT-APPL-SN-840176 US-PATENT-CLASS-244-1 US-PATENT-3,572,610
N71-26626*	c 10	NASA-CASE-GSC-10891-1 US-PATENT-APPL-SN-568620 US-PATENT-CLASS-307-53 US-PATENT-3,480,789	N71-27001*	c 09	US-PATENT-APPL-SN-825259 US-PATENT-CLASS-356-203 US-PATENT-3,563,668 NASA-CASE-XGS-11177 US-PATENT-APPL-SN-828921 US-PATENT-CLASS-317-33 US-PATENT-CLASS-317-9	N71-27126*	c 10	NASA-CASE-LEW-10233 US-PATENT-APPL-SN-750787 US-PATENT-CLASS-307-253 US-PATENT-CLASS-307-300 US-PATENT-3,566,158
N71-26627*	c 14	NASA-CASE-MFS-14017 US-PATENT-APPL-SN-762956 US-PATENT-CLASS-248-183 US-PATENT-CLASS-308-9 US-PATENT-3,559,937	N71-27005*	c 14	US-PATENT-3,571,656 NASA-CASE-MFS-20261 US-PATENT-APPL-SN-845990 US-PATENT-CLASS-1 US-PATENT-CLASS-141-258 US-PATENT-CLASS-222-137 US-PATENT-CLASS-222-49 US-PATENT-3,568,885	N71-27135*	c 15	NASA-CASE-HQN-10541-2 US-PATENT-APPL-SN-822088 US-PATENT-CLASS-219-121 US-PATENT-CLASS-331-94.5 US-PATENT-3,571,555
N71-26635*	c 15	NASA-CASE-ERC-10022 US-PATENT-APPL-SN-874733 US-PATENT-CLASS-74-424.8 US-PATENT-CLASS-74-89.15 US-PATENT-3,576,135	N71-27006*	c 15	US-PATENT-3,571,656 NASA-CASE-MFS-20261 US-PATENT-APPL-SN-845990 US-PATENT-CLASS-1 US-PATENT-CLASS-141-258 US-PATENT-CLASS-222-137 US-PATENT-CLASS-222-49 US-PATENT-3,568,885	N71-27136*	c 10	NASA-CASE-GSC-10065-1 US-PATENT-APPL-SN-808462 US-PATENT-CLASS-318-571 US-PATENT-CLASS-318-653 US-PATENT-3,568,028
N71-26642*	c 28	NASA-CASE-LEW-10106-1 US-PATENT-APPL-SN-758390 US-PATENT-CLASS-60-202 US-PATENT-3,552,124	N71-27016*	c 09	US-PATENT-CLASS-222-137 US-PATENT-CLASS-222-49 US-PATENT-3,568,885 NASA-CASE-LAR-10083-1 US-PATENT-APPL-SN-837825 US-PATENT-CLASS-73-147 US-PATENT-3,572,112	N71-27137*	c 10	NASA-CASE-XNP-06234 US-PATENT-APPL-SN-723827 US-PATENT-CLASS-235-92 US-PATENT-CLASS-328-49 US-PATENT-3,567,913
N71-26654*	c 23	NASA-CASE-NPO-10467 US-PATENT-APPL-SN-798277 US-PATENT-CLASS-62-514 US-PATENT-3,564,866	N71-27036*	c 11	NASA-CASE-GSC-11139 US-PATENT-APPL-SN-756511 US-PATENT-CLASS-307-234 US-PATENT-CLASS-307-246 US-PATENT-CLASS-307-273 US-PATENT-CLASS-328-120 US-PATENT-CLASS-330-30 US-PATENT-3,569,744	N71-27146*	c 15	NASA-CASE-LAR-10193-1 US-PATENT-APPL-SN-794968 US-PATENT-CLASS-188-1 US-PATENT-CLASS-188-103 US-PATENT-3,568,805
N71-26672*	c 14	NASA-CASE-ERC-10033 US-PATENT-APPL-SN-801660 US-PATENT-CLASS-73-49.3 US-PATENT-3,559,460	N71-27053*	c 09	US-PATENT-CLASS-307-246 US-PATENT-CLASS-307-273 US-PATENT-CLASS-328-120 US-PATENT-CLASS-330-30 US-PATENT-3,569,744 NASA-CASE-XNP-09770-3 US-PATENT-APPL-SN-863967 US-PATENT-CLASS-74-18.2 US-PATENT-3,574,286	N71-27147*	c 15	NASA-CASE-MSC-12121-1 US-PATENT-APPL-SN-783374 US-PATENT-CLASS-91-390 US-PATENT-CLASS-91-461 US-PATENT-3,563,135
N71-26673*	c 15	NASA-CASE-XAC-09489-1 US-PATENT-APPL-SN-694246 US-PATENT-CLASS-356-154 US-PATENT-3,565,530	N71-27056*	c 07	US-PATENT-CLASS-328-120 US-PATENT-CLASS-330-30 US-PATENT-3,569,744 NASA-CASE-XNP-09770-3 US-PATENT-APPL-SN-863967 US-PATENT-CLASS-74-18.2 US-PATENT-3,574,286	N71-27169*	c 15	NASA-CASE-LAR-10106-1 US-PATENT-APPL-SN-810755 US-PATENT-CLASS-188-1 US-PATENT-CLASS-310-51 US-PATENT-3,566,993
N71-26674*	c 19	NASA-CASE-XGS-04173 US-PATENT-APPL-SN-658964 US-PATENT-CLASS-350-285 US-PATENT-3,560,081	N71-27057*	c 08	US-PATENT-CLASS-323-48 US-PATENT-CLASS-323-60 US-PATENT-3,571,699 NASA-CASE-MSC-12205-1 US-PATENT-APPL-SN-882577 US-PATENT-CLASS-325-16 US-PATENT-CLASS-325-23 US-PATENT-CLASS-325-369 US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197	N71-27170*	c 18	NASA-CASE-XMF-02221 US-PATENT-APPL-SN-430192 US-PATENT-CLASS-252-301.2 US-PATENT-3,567,651
N71-26678*	c 09	NASA-CASE-ERC-10013 US-PATENT-APPL-SN-802972 US-PATENT-CLASS-29-25.18 US-PATENT-3,562,881	N71-27058*	c 14	US-PATENT-CLASS-323-60 US-PATENT-3,571,699 NASA-CASE-MSC-12205-1 US-PATENT-APPL-SN-882577 US-PATENT-CLASS-325-16 US-PATENT-CLASS-325-23 US-PATENT-CLASS-325-369 US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197	N71-27183*	c 16	NASA-CASE-HQN-10541-4 US-PATENT-APPL-SN-822090 US-PATENT-CLASS-250-199 US-PATENT-3,575,602
N71-26681*	c 32	NASA-CASE-LAR-10098 US-PATENT-APPL-SN-677475 US-PATENT-CLASS-73-71.4 US-PATENT-3,564,906	N71-27067*	c 15	US-PATENT-CLASS-325-16 US-PATENT-CLASS-325-23 US-PATENT-CLASS-325-369 US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797	N71-27184*	c 15	NASA-CASE-XNP-08124 US-PATENT-APPL-SN-697075 US-PATENT-CLASS-75-63 US-PATENT-3,563,727
N71-26701*	c 09	NASA-CASE-NPO-10331 US-PATENT-APPL-SN-757625 US-PATENT-CLASS-118-49.5 US-PATENT-CLASS-204-298 US-PATENT-3,556,048	N71-27068*	c 15	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797	N71-27185*	c 14	NASA-CASE-NPO-10556 US-PATENT-APPL-SN-796405 US-PATENT-CLASS-73-71.6 US-PATENT-3,572,089
N71-26721*	c 15	NASA-CASE-LAR-10121-1 US-PATENT-APPL-SN-766244 US-PATENT-CLASS-18-6 US-PATENT-3,562,857	N71-27057*	c 08	US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797 NASA-CASE-MSC-13276-1 US-PATENT-APPL-SN-880272 US-PATENT-CLASS-219-505 US-PATENT-3,575,585	N71-27186*	c 14	NASA-CASE-XMF-03968 US-PATENT-APPL-SN-719029 US-PATENT-CLASS-174-110.3 US-PATENT-CLASS-324-65 US-PATENT-CLASS-340-227 US-PATENT-CLASS-60-35.6 US-PATENT-3,569,828
N71-26722*	c 23	NASA-CASE-GSC-10216-1 US-PATENT-APPL-SN-756260 US-PATENT-CLASS-331-94.5 US-PATENT-3,555,455	N71-27058*	c 14	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797	N71-27191*	c 07	NASA-CASE-MFS-20068 US-PATENT-APPL-SN-797795 US-PATENT-CLASS-174-28 US-PATENT-CLASS-333-95 US-PATENT-CLASS-333-96 US-PATENT-CLASS-343-884 US-PATENT-3,569,875
N71-26726*	c 03	NASA-CASE-XNP-03413 US-PATENT-APPL-SN-640456 US-PATENT-CLASS-156-212 US-PATENT-3,565,719	N71-27067*	c 15	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797	N71-27210*	c 08	NASA-CASE-GSC-10097-1 US-PATENT-APPL-SN-762957 US-PATENT-CLASS-179-100.2 US-PATENT-CLASS-29-603 US-PATENT-CLASS-340-174.1 US-PATENT-3,566,045
N71-26754*	c 06	NASA-CASE-XNP-09451 US-PATENT-APPL-SN-713162 US-PATENT-CLASS-23-253 US-PATENT-3,560,161	N71-27068*	c 15	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797	N71-27214*	c 15	NASA-CASE-XLA-08911 US-PATENT-APPL-SN-777764 US-PATENT-CLASS-219-229 US-PATENT-CLASS-228-53 US-PATENT-3,575,336
N71-26772*	c 18	NASA-CASE-XMF-07770-2 US-PATENT-APPL-SN-711903 US-PATENT-CLASS-106-296 US-PATENT-3,576,656	N71-27084*	c 15	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797	N71-27215*	c 14	NASA-CASE-LAR-10204 US-PATENT-APPL-SN-766245 US-PATENT-CLASS-235-92 US-PATENT-CLASS-356-106 US-PATENT-3,572,935
N71-26773*	c 17	NASA-CASE-XNP-04262-2 US-PATENT-APPL-SN-684894 US-PATENT-CLASS-75-66 US-PATENT-3,565,607	N71-27088*	c 02	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797	N71-27232*	c 09	NASA-CASE-NPO-10607 US-PATENT-APPL-SN-799353 US-PATENT-CLASS-250-83 US-PATENT-CLASS-317-230 US-PATENT-CLASS-317-231 US-PATENT-CLASS-317-238 US-PATENT-3,568,010
N71-26774*	c 14	NASA-CASE-ERC-11020 US-PATENT-APPL-SN-686248 US-PATENT-CLASS-325-363 US-PATENT-3,564,420	N71-27090*	c 14	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797			
N71-26779*	c 28	NASA-CASE-XLA-04126 US-PATENT-APPL-SN-467820 US-PATENT-CLASS-102-101 US-PATENT-CLASS-264-3 US-PATENT-CLASS-86-1 US-PATENT-CLASS-86-20.2 US-PATENT-3,570,364	N71-27091*	c 15	US-PATENT-CLASS-343-100 US-PATENT-CLASS-343-117 US-PATENT-CLASS-343-176 US-PATENT-3,568,197 NASA-CASE-XLA-07828 US-PATENT-APPL-SN-770209 US-PATENT-CLASS-318-20.105 US-PATENT-CLASS-325-151.11 US-PATENT-CLASS-340-347DA US-PATENT-3,573,797			
N71-26781*	c 28	NASA-CASE-LEW-10210-1						

N71-27233*	c 07	NASA-CASE-GSC-10220-1 US-PATENT-APPL-SN-759256 US-PATENT-CLASS-343-777 US-PATENT-CLASS-343-786 US-PATENT-CLASS-343-799 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-854 US-PATENT-3,569,976	N71-27407*	c 14	NASA-CASE-GSC-10376-1 US-PATENT-APPL-SN-806226 US-PATENT-CLASS-307-126 US-PATENT-CLASS-323-20 US-PATENT-3,566,143	N71-28729*	c 18	NASA-CASE-LEW-10219-1 US-PATENT-APPL-SN-785780 US-PATENT-CLASS-148-126 US-PATENT-3,579,390
N71-27234*	c 05	NASA-CASE-XFR-07172 US-PATENT-APPL-SN-720041 US-PATENT-CLASS-128-2.05 US-PATENT-3,563,232	N71-27432*	c 15	NASA-CASE-NPO-10808 US-PATENT-APPL-SN-808192 US-PATENT-CLASS-60-243 US-PATENT-3,568,447	N71-28739*	c 10	NASA-CASE-XNP-01068 US-PATENT-APPL-SN-375680 US-PATENT-CLASS-307-88.5 US-PATENT-3,271,594
N71-27254*	c 06	NASA-CASE-NPO-10768 US-PATENT-APPL-SN-770398 US-PATENT-CLASS-260-615 US-PATENT-3,574,770	N71-27585*	c 28	NASA-CASE-MFS-20130 US-PATENT-APPL-SN-809822 US-PATENT-CLASS-244-4 US-PATENT-3,570,785	N71-28740*	c 15	NASA-CASE-XLA-09348 US-PATENT-APPL-SN-820964 US-PATENT-CLASS-356-150 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-153 US-PATENT-CLASS-73-147 US-PATENT-3,583,815
N71-27255*	c 08	NASA-CASE-NPO-12107 US-PATENT-APPL-SN-555189 US-PATENT-CLASS-179-100.2 US-PATENT-CLASS-340-146.1 US-PATENT-CLASS-340-172.5 US-PATENT-3,571,801	N71-27754*	c 15	NASA-CASE-ARC-10131-1 US-PATENT-APPL-SN-808576 US-PATENT-CLASS-60-51 US-PATENT-CLASS-91-361 US-PATENT-CLASS-91-390 US-PATENT-CLASS-91-448 US-PATENT-3,568,572	N71-28741*	c 12	NASA-CASE-XLE-09341 US-PATENT-APPL-SN-780065 US-PATENT-CLASS-137-81.5 US-PATENT-3,583,419
N71-27271*	c 10	NASA-CASE-XLA-03893 US-PATENT-APPL-SN-779024 US-PATENT-CLASS-331-109 US-PATENT-CLASS-331-117 US-PATENT-CLASS-331-177 US-PATENT-CLASS-332-30 US-PATENT-3,569,866	N71-27862*	c 33	NASA-CASE-MFS-14114 US-PATENT-APPL-SN-706013 US-PATENT-CLASS-310-4 US-PATENT-3,535,562	N71-28747*	c 17	NASA-CASE-XNP-08881 US-PATENT-APPL-SN-732922 US-PATENT-CLASS-161-89 US-PATENT-3,579,412
N71-27272*	c 10	NASA-CASE-XLA-08799 US-PATENT-APPL-SN-668242 US-PATENT-CLASS-340-150 US-PATENT-CLASS-340-164 US-PATENT-CLASS-340-166 US-PATENT-CLASS-340-213 US-PATENT-CLASS-340-403 US-PATENT-3,571,800	N71-28421*	c 09	NASA-CASE-NPO-10412 US-PATENT-APPL-SN-768470 US-PATENT-CLASS-310-4 US-PATENT-3,578,992	N71-28759*	c 22	NASA-CASE-LEW-10250-1 US-PATENT-APPL-SN-732455 US-PATENT-CLASS-176-45 US-PATENT-3,574,057
N71-27323*	c 14	NASA-CASE-NPO-10810 US-PATENT-APPL-SN-805405 US-PATENT-CLASS-250-83.3 US-PATENT-CLASS-73-355 US-PATENT-3,566,122	N71-28429*	c 07	NASA-CASE-MSC-13201-1 US-PATENT-APPL-SN-789903 US-PATENT-CLASS-332-29 US-PATENT-CLASS-332-30 US-PATENT-3,579,147	N71-28779*	c 11	NASA-CASE-XNP-00250 US-PATENT-APPL-SN-212497 US-PATENT-CLASS-181-5 US-PATENT-3,260,326
N71-27324*	c 21	NASA-CASE-GSC-10555-1 US-PATENT-APPL-SN-785620 US-PATENT-CLASS-244-1 US-PATENT-3,567,155	N71-28430*	c 07	NASA-CASE-GSC-10668-1 US-PATENT-APPL-SN-743525 US-PATENT-CLASS-307-296 US-PATENT-CLASS-325-185 US-PATENT-CLASS-330-124 US-PATENT-CLASS-330-200 US-PATENT-CLASS-330-40 US-PATENT-3,577,092	N71-28783*	c 10	NASA-CASE-XMS-02182 US-PATENT-APPL-SN-516153 US-PATENT-CLASS-317-100 US-PATENT-3,317,797
N71-27325*	c 14	NASA-CASE-GSC-10441-1 US-PATENT-APPL-SN-782544 US-PATENT-CLASS-324-43 US-PATENT-3,571,700	N71-28465*	c 15	NASA-CASE-ERC-10097 US-PATENT-APPL-SN-797059 US-PATENT-CLASS-308-170 US-PATENT-3,583,777	N71-28807*	c 06	NASA-CASE-XMF-08674 US-PATENT-APPL-SN-617775 US-PATENT-CLASS-260-47 US-PATENT-3,370,039
N71-27332*	c 12	NASA-CASE-NPO-10416 US-PATENT-APPL-SN-754020 US-PATENT-CLASS-137-81.5 US-PATENT-3,570,513	N71-28467*	c 15	NASA-CASE-NPO-10646 US-PATENT-APPL-SN-813488 US-PATENT-CLASS-64-18 US-PATENT-3,574,277	N71-28808*	c 06	NASA-CASE-XNP-04023 US-PATENT-APPL-SN-470902 US-PATENT-CLASS-260-429 US-PATENT-3,396,184
N71-27334*	c 14	NASA-CASE-ERC-10087 US-PATENT-APPL-SN-738315 US-PATENT-CLASS-29-588 US-PATENT-3,566,459	N71-28468*	c 09	NASA-CASE-ARC-10137-1 US-PATENT-APPL-SN-799013 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-307-288 US-PATENT-CLASS-328-207 US-PATENT-3,584,311	N71-28809*	c 07	NASA-CASE-XGS-02290 US-PATENT-APPL-SN-544895 US-PATENT-CLASS-343-771 US-PATENT-3,417,400
N71-27338*	c 10	NASA-CASE-KSC-10020 US-PATENT-APPL-SN-817482 US-PATENT-CLASS-324-103 US-PATENT-CLASS-324-107 US-PATENT-CLASS-324-133 US-PATENT-CLASS-340-248 US-PATENT-3,571,707	N71-28554*	c 16	NASA-CASE-XGS-10518 US-PATENT-APPL-SN-764470 US-PATENT-CLASS-335-216 US-PATENT-3,541,486	N71-28810*	c 09	NASA-CASE-XNP-03916 US-PATENT-APPL-SN-535304 US-PATENT-CLASS-331-113 US-PATENT-3,325,749
N71-27341*	c 07	NASA-CASE-NPO-10343 US-PATENT-APPL-SN-750786 US-PATENT-CLASS-178-7.1 US-PATENT-CLASS-178-7.3 US-PATENT-3,566,027	N71-28579*	c 03	NASA-CASE-LEW-11359 US-PATENT-APPL-SN-787911 US-PATENT-CLASS-136-83 US-PATENT-3,573,986	N71-28849*	c 28	NASA-CASE-XMS-04826 US-PATENT-APPL-SN-521755 US-PATENT-CLASS-60-258 US-PATENT-3,318,096
N71-27363*	c 06	NASA-CASE-HQN-10364 US-PATENT-APPL-SN-713616 US-PATENT-CLASS-260-2 US-PATENT-3,563,918	N71-28582*	c 15	NASA-CASE-LEW-10278-1 US-PATENT-APPL-SN-760928 US-PATENT-CLASS-117-224 US-PATENT-3,573,977	N71-28850*	c 28	NASA-CASE-XNP-01954 US-PATENT-APPL-SN-372730 US-PATENT-CLASS-313-230 US-PATENT-3,328,624
N71-27364*	c 09	NASA-CASE-ERC-10065 US-PATENT-APPL-SN-777818 US-PATENT-CLASS-321-61 US-PATENT-CLASS-321-64 US-PATENT-CLASS-322-32 US-PATENT-3,571,693	N71-28618*	c 09	NASA-CASE-ERC-10098 US-PATENT-APPL-SN-779169 US-PATENT-CLASS-178-5.2R US-PATENT-CLASS-178-54CF US-PATENT-CLASS-178-54PE US-PATENT-3,582,960	N71-28851*	c 31	NASA-CASE-XMS-06162 US-PATENT-APPL-SN-610724 US-PATENT-CLASS-244-138 US-PATENT-3,330,510
N71-27365*	c 10	NASA-CASE-NPO-10251 US-PATENT-APPL-SN-774265 US-PATENT-CLASS-35-19 US-PATENT-3,570,143	N71-28619*	c 05	NASA-CASE-ARC-10153 US-PATENT-APPL-SN-783377 US-PATENT-CLASS-104-139 US-PATENT-CLASS-119-96 US-PATENT-CLASS-238-1 US-PATENT-CLASS-248-361 US-PATENT-CLASS-272-70 US-PATENT-CLASS-35-29 US-PATENT-3,583,322	N71-28852*	c 33	NASA-CASE-XNP-01310 US-PATENT-APPL-SN-379771 US-PATENT-CLASS-60-266 US-PATENT-3,279,193
N71-27366*	c 10	NASA-CASE-GSC-10114-1 US-PATENT-APPL-SN-796370 US-PATENT-CLASS-317-33 US-PATENT-CLASS-321-12 US-PATENT-3,571,662	N71-28620*	c 06	NASA-CASE-NPO-10701 US-PATENT-APPL-SN-763355 US-PATENT-CLASS-260-47 US-PATENT-3,576,786	N71-28859*	c 10	NASA-CASE-XNP-01107 US-PATENT-APPL-SN-384010 US-PATENT-CLASS-330-51 US-PATENT-3,389,346
N71-27372*	c 15	NASA-CASE-NPO-10070 US-PATENT-APPL-SN-780064 US-PATENT-CLASS-23-259 US-PATENT-3,565,584	N71-28629*	c 11	NASA-CASE-KSC-10198 US-PATENT-APPL-SN-845971 US-PATENT-CLASS-73-15 US-PATENT-CLASS-73-432 US-PATENT-3,578,756	N71-28860*	c 10	NASA-CASE-MSC-13492-1 US-PATENT-APPL-SN-53156 US-PATENT-CLASS-307-215 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-273 US-PATENT-CLASS-328-207 US-PATENT-CLASS-328-92 US-PATENT-3,577,014
N71-27397*	c 18	NASA-CASE-XNP-02500 US-PATENT-APPL-SN-508169 US-PATENT-CLASS-324-58.5	N71-28691*	c 09	NASA-CASE-MFS-13687	N71-28863*	c 14	NASA-CASE-ERC-10014 US-PATENT-APPL-SN-815367 US-PATENT-CLASS-250-41.9 US-PATENT-CLASS-250-49.5 US-PATENT-3,567,927

		US-PATENT-CLASS-62-45	N71-28994*	c 14	NASA-CASE-XER-11203	N71-29129*	c 03	NASA-CASE-XGS-01674
		US-PATENT-3,365,897			US-PATENT-APPL-SN-815366			US-PATENT-APPL-SN-248985
N71-28900*	c 07	NASA-CASE-XNP-02389			US-PATENT-CLASS-250-218			US-PATENT-CLASS-320-13
		US-PATENT-APPL-SN-516162			US-PATENT-CLASS-356-103			US-PATENT-3,118,100
		US-PATENT-CLASS-343-100			US-PATENT-3,578,867	N71-29131*	c 16	NASA-CASE-ERC-10151
		US-PATENT-3,331,071	N71-29008*	c 09	NASA-CASE-MS-11277			US-PATENT-APPL-SN-853856
N71-28903*	c 33	NASA-CASE-XLA-01745			US-PATENT-APPL-SN-771759			US-PATENT-CLASS-350-3.5
		US-PATENT-APPL-SN-538907			US-PATENT-CLASS-317-155.5			US-PATENT-3,578,838
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-317-33	N71-29132*	c 15	NASA-CASE-NPO-10431
		US-PATENT-3,409,247			US-PATENT-CLASS-317-54			US-PATENT-APPL-SN-865329
N71-28915*	c 28	NASA-CASE-LEW-10286-1			US-PATENT-CLASS-317-60			US-PATENT-CLASS-73-49.8
		US-PATENT-APPL-SN-839994			US-PATENT-3,579,041			US-PATENT-3,583,239
		US-PATENT-CLASS-431-352	N71-29018*	c 15	NASA-CASE-XLA-08916	N71-29133*	c 15	NASA-CASE-MFS-20453
		US-PATENT-CLASS-60-39.36			US-PATENT-APPL-SN-777765			US-PATENT-APPL-SN-885594
		US-PATENT-CLASS-60-39.65			US-PATENT-CLASS-29-421			US-PATENT-CLASS-29-278R
		US-PATENT-3,581,492			US-PATENT-3,583,058			US-PATENT-CLASS-294-15
N71-28925*	c 08	NASA-CASE-XNP-01012	N71-29032*	c 15	NASA-CASE-XMF-05999			US-PATENT-CLASS-339-17R
		US-PATENT-APPL-SN-369338			US-PATENT-APPL-SN-752946			US-PATENT-CLASS-81-3R
		US-PATENT-CLASS-340-174			US-PATENT-CLASS-117-212			US-PATENT-3,583,744
		US-PATENT-3,394,359			US-PATENT-3,576,669	N71-29134*	c 14	NASA-CASE-MFS-11204
N71-28926*	c 09	NASA-CASE-XMS-03542	N71-29033*	c 08	NASA-CASE-GSC-10554-1			US-PATENT-APPL-SN-845991
		US-PATENT-APPL-SN-482952			US-PATENT-APPL-SN-828984			US-PATENT-CLASS-73-1R
		US-PATENT-CLASS-307-263			US-PATENT-CLASS-235-150.1			US-PATENT-CLASS-73-304C
		US-PATENT-3,364,366			US-PATENT-CLASS-235-150.2			US-PATENT-3,578,755
N71-28928*	c 28	NASA-CASE-XNP-00816			US-PATENT-CLASS-235-151.1	N71-29135*	c 10	NASA-CASE-GSC-10564
		US-PATENT-APPL-SN-235588			US-PATENT-3,578,957			US-PATENT-APPL-SN-292596
		US-PATENT-CLASS-253-77			US-PATENT-3,578,957			US-PATENT-CLASS-340-174
		US-PATENT-3,202,398	N71-29034*	c 08	NASA-CASE-NPO-11088			US-PATENT-3,348,218
N71-28929*	c 27	NASA-CASE-XNP-00650			US-PATENT-APPL-SN-887701	N71-29136*	c 15	NASA-CASE-XLA-00013
		US-PATENT-APPL-SN-271823			US-PATENT-CLASS-307-207			US-PATENT-APPL-SN-579121
		US-PATENT-CLASS-60-39.48			US-PATENT-CLASS-307-222			US-PATENT-CLASS-308-177
		US-PATENT-3,170,295			US-PATENT-CLASS-328-167			US-PATENT-2,903,307
N71-28933*	c 14	NASA-CASE-XLA-08913			US-PATENT-CLASS-328-44	N71-29137*	c 17	NASA-CASE-XNP-04339
		US-PATENT-APPL-SN-865109			US-PATENT-3,579,122			US-PATENT-APPL-SN-451596
		US-PATENT-CLASS-204-263	N71-29035*	c 09	NASA-CASE-LEW-10155-1			US-PATENT-CLASS-264-111
		US-PATENT-3,574,084			US-PATENT-APPL-SN-889387			US-PATENT-3,413,393
N71-28935*	c 14	NASA-CASE-LAR-10686			US-PATENT-CLASS-337-114	N71-29138*	c 08	NASA-CASE-ERC-10041
		US-PATENT-APPL-SN-280362			US-PATENT-CLASS-337-121			US-PATENT-APPL-SN-889478
		US-PATENT-CLASS-226-58			US-PATENT-3,579,168			US-PATENT-CLASS-307-234
		US-PATENT-3,298,582	N71-29040*	c 18	NASA-CASE-XLE-10910			US-PATENT-CLASS-307-265
N71-28936*	c 15	NASA-CASE-XMS-10993			US-PATENT-APPL-SN-751061			US-PATENT-CLASS-324-106
		US-PATENT-APPL-SN-660573			US-PATENT-CLASS-148-6			US-PATENT-CLASS-328-58
		US-PATENT-CLASS-244-1			US-PATENT-3,573,996			US-PATENT-CLASS-332-10
		US-PATENT-3,389,877	N71-29041*	c 14	NASA-CASE-XLA-10402			US-PATENT-CLASS-332-9R
N71-28937*	c 15	NASA-CASE-XNP-01855			US-PATENT-APPL-SN-762935			US-PATENT-3,579,146
		US-PATENT-APPL-SN-408435			US-PATENT-CLASS-356-76	N71-29139*	c 09	NASA-CASE-XLA-07788
		US-PATENT-CLASS-285-45			US-PATENT-3,574,462			US-PATENT-APPL-SN-874732
		US-PATENT-3,219,365	N71-29044*	c 03	NASA-CASE-XMS-02063			US-PATENT-CLASS-307-215
N71-28951*	c 15	NASA-CASE-XNP-02278			US-PATENT-APPL-SN-422096			US-PATENT-CLASS-307-247
		US-PATENT-APPL-SN-11853			US-PATENT-CLASS-136-86			US-PATENT-CLASS-307-265
		US-PATENT-CLASS-60-35.55			US-PATENT-3,382,105			US-PATENT-CLASS-307-273
		US-PATENT-3,132,479	N71-29046*	c 33	NASA-CASE-XHQ-03673			US-PATENT-CLASS-307-294
N71-28952*	c 15	NASA-CASE-XAC-00001			US-PATENT-APPL-SN-559055			US-PATENT-CLASS-328-207
		US-PATENT-APPL-SN-612568			US-PATENT-CLASS-165-86			US-PATENT-3,578,988
		US-PATENT-CLASS-318-31			US-PATENT-3,347,309	N71-29151*	c 33	NASA-CASE-XLE-00035
		US-PATENT-2,837,706	N71-29049*	c 23	NASA-CASE-XNP-06503			US-PATENT-APPL-SN-575291
N71-28958*	c 14	NASA-CASE-XNP-02792			US-PATENT-APPL-SN-370989			US-PATENT-CLASS-204-37
		US-PATENT-APPL-SN-262596			US-PATENT-CLASS-335-216			US-PATENT-2,926,123
		US-PATENT-CLASS-219-413			US-PATENT-3,273,094	N71-29152*	c 33	NASA-CASE-XLE-00027
		US-PATENT-3,197,616	N71-29050*	c 31	NASA-CASE-HQN-00936			US-PATENT-APPL-SN-529594
N71-28959*	c 15	NASA-CASE-XNP-01848			US-PATENT-APPL-SN-862921			US-PATENT-CLASS-253-39.1
		US-PATENT-APPL-SN-359532			US-PATENT-CLASS-244-1			US-PATENT-2,956,772
		US-PATENT-CLASS-64-27			US-PATENT-3,396,920	N71-29153*	c 28	NASA-CASE-MFS-20831
		US-PATENT-3,236,066	N71-29051*	c 33	NASA-CASE-XMF-04208			US-PATENT-APPL-SN-238421
N71-28960*	c 10	NASA-CASE-XNP-00745			US-PATENT-APPL-SN-428887			US-PATENT-CLASS-60-35.54
		US-PATENT-APPL-SN-314570			US-PATENT-CLASS-73-190			US-PATENT-3,212,259
		US-PATENT-CLASS-328-67			US-PATENT-3,372,588	N71-29154*	c 28	NASA-CASE-XLE-00155
		US-PATENT-3,252,100	N71-29052*	c 33	NASA-CASE-MS-12389			US-PATENT-APPL-SN-348600
N71-28965* #	c 07	NASA-CASE-GSC-10949-1			US-PATENT-APPL-SN-229286			US-PATENT-CLASS-253-77
		US-PATENT-APPL-SN-94369			US-PATENT-CLASS-165-47			US-PATENT-2,997,274
N71-28979*	c 07	NASA-CASE-HQN-00937			US-PATENT-3,212,564	N71-29155*	c 27	NASA-CASE-MS-12390
		US-PATENT-APPL-SN-343760			US-PATENT-APPL-SN-559055			US-PATENT-APPL-SN-231520
		US-PATENT-CLASS-343-823	N71-29053*	c 33	NASA-CASE-HQN-00938			US-PATENT-CLASS-222-61
		US-PATENT-3,299,431			US-PATENT-APPL-SN-300957			US-PATENT-3,286,882
N71-28980*	c 07	NASA-CASE-XLA-10772			US-PATENT-CLASS-60-267	N71-29156*	c 26	NASA-CASE-XNP-01961
		US-PATENT-APPL-SN-887700			US-PATENT-3,298,175			US-PATENT-APPL-SN-442835
		US-PATENT-CLASS-343-708			US-PATENT-ERC-10011			US-PATENT-CLASS-148-174
		US-PATENT-CLASS-343-784			US-PATENT-APPL-SN-802818			US-PATENT-3,397,094
		US-PATENT-CLASS-343-872			US-PATENT-CLASS-333-81	N71-29184*	c 25	NASA-CASE-XLA-00327
		US-PATENT-3,579,242			US-PATENT-CLASS-350-1			US-PATENT-APPL-SN-199199
N71-28991*	c 14	NASA-CASE-XLA-06713			US-PATENT-CLASS-350-286			US-PATENT-CLASS-315-111
		US-PATENT-APPL-SN-863913			US-PATENT-3,574,438			US-PATENT-3,238,413
		US-PATENT-CLASS-324-5	N71-29123*	c 23	NASA-CASE-XNP-08907			US-PATENT-CLASS-323-432
		US-PATENT-CLASS-324-73			US-PATENT-APPL-SN-824042	N71-30026*	c 14	NASA-CASE-MFS-20096
		US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-350-102			US-PATENT-APPL-SN-435433
		US-PATENT-3,579,103			US-PATENT-CLASS-350-288			US-PATENT-CLASS-73-432
N71-28992*	c 14	NASA-CASE-ERC-10150			US-PATENT-CLASS-350-310			US-PATENT-3,396,584
		US-PATENT-APPL-SN-822519	N71-29125*	c 23	US-PATENT-3,574,448	N71-30027*	c 23	NASA-CASE-GSC-10700
		US-PATENT-CLASS-250-41.95			NASA-CASE-NPO-11087			US-PATENT-APPL-SN-311387
		US-PATENT-CLASS-73-40.7			US-PATENT-APPL-SN-840359			US-PATENT-CLASS-350-2
		US-PATENT-3,578,758			US-PATENT-CLASS-331-94.5			US-PATENT-3,394,975
N71-28993*	c 14	NASA-CASE-MFS-20044			US-PATENT-CLASS-356-153	N71-30028*	c 15	NASA-CASE-MFS-20830
		US-PATENT-APPL-SN-838630			US-PATENT-3,574,467			US-PATENT-APPL-SN-286620
		US-PATENT-CLASS-250-219	N71-29128*	c 02	NASA-CASE-XAC-00048			US-PATENT-3,262,395
		US-PATENT-CLASS-356-209			US-PATENT-APPL-SN-765264	N71-30265*	c 14	NASA-CASE-HQN-10780
		US-PATENT-3,574,470			US-PATENT-CLASS-121-38			US-PATENT-APPL-SN-247136
					US-PATENT-2,898,889			US-PATENT-CLASS-73-497

N71-30292*	c 23	US-PATENT-3,270,565	N71-34044* #	c 03	US-PATENT-CLASS-329-145	N72-11365*	c 14	US-PATENT-CLASS-73-95
		NASA-CASE-HQN-10781			US-PATENT-3,588,705			US-PATENT-3,592,545
N71-33108*	c 07	US-PATENT-APPL-SN-86018	N71-34212* #	c 09	NASA-CASE-NPO-11190	N72-11385*	c 15	NASA-CASE-MFS-20485
		US-PATENT-3,239,660			US-PATENT-APPL-SN-115944			US-PATENT-APPL-SN-22320
N71-33109*	c 09	NASA-CASE-KSC-10164	N71-34389* #	c 14	NASA-CASE-MFS-20935	N72-11386*	c 15	US-PATENT-CLASS-250-43.5FC
		US-PATENT-APPL-SN-782955			US-PATENT-APPL-SN-136007			US-PATENT-CLASS-73-194F
N71-33110*	c 08	US-PATENT-CLASS-179-1R	N72-10138* #	c 06	NASA-CASE-HQN-10683	N72-11387*	c 15	US-PATENT-3,599,489
		US-PATENT-CLASS-179-1VC			US-PATENT-APPL-SN-146217			NASA-CASE-MFS-18495
N71-33129*	c 10	US-PATENT-3,588,359	N72-10375* #	c 14	NASA-CASE-HQN-10537-1	N72-11388*	c 15	US-PATENT-APPL-SN-38814
		NASA-CASE-ARC-10101-1			US-PATENT-APPL-SN-112366			US-PATENT-CLASS-24-211N
N71-33160*	c 31	US-PATENT-APPL-SN-793823	N72-11018*	c 02	NASA-CASE-GSC-11095-1	N72-11389*	c 15	US-PATENT-CLASS-85-5B
		US-PATENT-CLASS-307-251			US-PATENT-APPL-SN-147940			US-PATENT-3,596,554
N71-33229*	c 23	US-PATENT-CLASS-307-261	N72-11082*	c 03	NASA-CASE-LAR-10557	N72-11390*	c 15	NASA-CASE-MFS-20249
		US-PATENT-CLASS-321-47			US-PATENT-APPL-SN-853746			US-PATENT-APPL-SN-794530
N71-33407*	c 10	US-PATENT-3,588,671	N72-11084*	c 05	US-PATENT-CLASS-416-115	N72-11391*	c 15	US-PATENT-CLASS-248-183
		NASA-CASE-GSC-10186			US-PATENT-CLASS-416-121			US-PATENT-CLASS-248-278
N71-33408*	c 17	US-PATENT-APPL-SN-713188	N72-11085*	c 05	US-PATENT-CLASS-416-127	N72-11392*	c 15	US-PATENT-CLASS-248-487
		US-PATENT-CLASS-235-164			US-PATENT-CLASS-416-130			US-PATENT-CLASS-33-72
N71-33409*	c 03	US-PATENT-CLASS-235-175	N72-11148*	c 07	US-PATENT-CLASS-416-149	N72-11393*	c 15	US-PATENT-CLASS-350-285
		US-PATENT-3,588,483			US-PATENT-CLASS-416-200			US-PATENT-CLASS-350-287
N71-33410*	c 16	NASA-CASE-GSC-10667-1	N72-11149*	c 07	US-PATENT-3,592,559	N72-11568* #	c 23	US-PATENT-3,596,863
		US-PATENT-APPL-SN-749548			NASA-CASE-XGS-04047-2			NASA-CASE-XMF-09902
N71-33411*	c 15	US-PATENT-CLASS-330-11	N72-11150*	c 07	US-PATENT-APPL-SN-843251	N72-11569*	c 24	US-PATENT-APPL-SN-769685
		US-PATENT-CLASS-330-16			US-PATENT-CLASS-136-206			US-PATENT-CLASS-75-20F
N71-33412*	c 10	US-PATENT-CLASS-330-24	N72-11151*	c 08	US-PATENT-3,597,281	N72-11708*	c 28	US-PATENT-3,592,628
		US-PATENT-3,585,514			NASA-CASE-NPO-10677			NASA-CASE-MFS-20423
N71-33413*	c 15	US-PATENT-APPL-SN-802948	N72-11152*	c 08	US-PATENT-APPL-SN-868530	N72-11709*	c 28	US-PATENT-APPL-SN-865298
		US-PATENT-CLASS-179-1			US-PATENT-CLASS-62-467			US-PATENT-CLASS-212-134
N71-33414*	c 10	US-PATENT-CLASS-244-1	N72-11153*	c 09	US-PATENT-CLASS-62-56	N72-12080*	c 07	US-PATENT-CLASS-308-5
		US-PATENT-CLASS-244-83			US-PATENT-3,599,443			US-PATENT-3,600,046
N71-33415*	c 10	US-PATENT-3,586,261	N72-11154*	c 10	NASA-CASE-MS-13140	N72-12081*	c 09	NASA-CASE-XLA-05056
		NASA-CASE-NPO-10468			US-PATENT-APPL-SN-796358			US-PATENT-APPL-SN-596733
N71-33416*	c 10	US-PATENT-APPL-SN-787846	N72-11155*	c 10	US-PATENT-CLASS-285-410	N72-12082*	c 09	US-PATENT-CLASS-210-445
		US-PATENT-CLASS-350-310			US-PATENT-CLASS-297-232			US-PATENT-3,592,768
N71-33417*	c 10	US-PATENT-CLASS-350-55	N72-11156*	c 10	US-PATENT-CLASS-297-68	N72-12083*	c 09	NASA-CASE-MFS-18100
		US-PATENT-3,588,220			US-PATENT-CLASS-5-69			US-PATENT-APPL-SN-784055
N71-33418*	c 15	NASA-CASE-NPO-10342	N72-11157*	c 10	US-PATENT-3,592,505	N72-12084*	c 09	US-PATENT-CLASS-15-143
		US-PATENT-APPL-SN-704446			NASA-CASE-NPO-10301			US-PATENT-CLASS-15-210
N71-33419*	c 03	US-PATENT-CLASS-178-69.5	N72-11158*	c 10	US-PATENT-APPL-SN-848810	N72-12085*	c 09	US-PATENT-3,591,885
		US-PATENT-CLASS-179-15BS			US-PATENT-CLASS-343-771			NASA-CASE-NPO-11012
N71-33420*	c 17	US-PATENT-CLASS-340-347DD	N72-11159*	c 07	US-PATENT-CLASS-343-853	N72-12086*	c 09	US-PATENT-APPL-SN-845807
		US-PATENT-3,588,883			US-PATENT-3,599,216			US-PATENT-CLASS-248-18
N71-33421*	c 17	NASA-CASE-LEW-10327	N72-11160*	c 07	NASA-CASE-GSC-10390-1	N72-12087*	c 09	US-PATENT-CLASS-248-20
		US-PATENT-APPL-SN-772006			US-PATENT-APPL-SN-749121			US-PATENT-3,592,422
N71-33422*	c 03	US-PATENT-CLASS-148-6.3	N72-11161*	c 07	US-PATENT-CLASS-325-39	N72-12088*	c 09	NASA-CASE-MFS-20299
		US-PATENT-3,591,426			US-PATENT-CLASS-325-4			US-PATENT-APPL-SN-889437
N71-33423*	c 03	NASA-CASE-ARC-10050	N72-11162*	c 08	US-PATENT-CLASS-325-58	N72-12089*	c 09	US-PATENT-CLASS-156-320
		US-PATENT-APPL-SN-797219			US-PATENT-CLASS-343-179			US-PATENT-CLASS-156-66
N71-33424*	c 16	US-PATENT-CLASS-136-89	N72-11163*	c 08	US-PATENT-CLASS-343-5DP	N72-12090*	c 09	US-PATENT-CLASS-219-221
		US-PATENT-3,591,420			US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-219-243
N71-33425*	c 15	NASA-CASE-NPO-10417	N72-11164*	c 07	US-PATENT-3,593,138	N72-12091*	c 09	US-PATENT-3,593,001
		US-PATENT-APPL-SN-753974			NASA-CASE-NPO-11064			NASA-CASE-GSC-11133-1
N71-33426*	c 15	US-PATENT-CLASS-331-94.5	N72-11165*	c 07	US-PATENT-APPL-SN-880248	N72-12092*	c 09	US-PATENT-APPL-SN-121328
		US-PATENT-CLASS-352-84			US-PATENT-CLASS-331-10			NASA-CASE-MFS-20095
N71-33427*	c 15	US-PATENT-CLASS-95-11	N72-11166*	c 08	US-PATENT-CLASS-331-34	N72-12093*	c 09	US-PATENT-APPL-SN-855004
		US-PATENT-3,587,424			US-PATENT-CLASS-331-66			US-PATENT-CLASS-250-49.5B
N71-33428*	c 15	NASA-CASE-XLA-03661	N72-11167*	c 08	US-PATENT-CLASS-331-7	N72-12094*	c 09	US-PATENT-CLASS-250-49.5TE
		US-PATENT-APPL-SN-751266			US-PATENT-3,593,180			US-PATENT-CLASS-250-51
N71-33429*	c 09	US-PATENT-CLASS-408-137	N72-11168*	c 08	NASA-CASE-NPO-10769	N72-12095*	c 09	US-PATENT-CLASS-250-52
		US-PATENT-CLASS-90-11			US-PATENT-APPL-SN-813494			US-PATENT-3,593,024
N71-33430*	c 09	US-PATENT-3,585,882	N72-11169*	c 08	US-PATENT-CLASS-179-15.55R	N72-12096*	c 09	NASA-CASE-MFS-20619
		NASA-CASE-ERC-10100			US-PATENT-3,598,921			US-PATENT-APPL-SN-18982
N71-33431*	c 07	US-PATENT-APPL-SN-766697	N72-11170*	c 08	NASA-CASE-GSC-10880-1	N72-12097*	c 09	US-PATENT-CLASS-139-425R
		US-PATENT-CLASS-313-109.5			US-PATENT-APPL-SN-831118			US-PATENT-CLASS-239-265.19
N71-33432*	c 07	US-PATENT-CLASS-313-231	N72-11171*	c 08	US-PATENT-CLASS-235-61NV	N72-12098*	c 09	US-PATENT-CLASS-239-265.43
		US-PATENT-CLASS-315-108			US-PATENT-CLASS-33-15A			US-PATENT-CLASS-60-271
N71-33433*	c 07	US-PATENT-CLASS-315-111	N72-11172*	c 08	US-PATENT-CLASS-33-204C	N72-12099*	c 09	US-PATENT-3,596,465
		US-PATENT-CLASS-340-324			US-PATENT-3,599,335			NASA-CASE-NPO-10737
N71-33434*	c 07	US-PATENT-CLASS-340-336	N72-11173*	c 08	NASA-CASE-GSC-10614-1	N72-12100*	c 09	US-PATENT-APPL-SN-760114
		US-PATENT-3,588,874			US-PATENT-APPL-SN-822534			US-PATENT-CLASS-60-202
N71-33435*	c 07	NASA-CASE-NPO-11031	N72-11174*	c 09	US-PATENT-CLASS-179-100-2CA	N72-12101*	c 09	US-PATENT-CLASS-60-39-48
		US-PATENT-APPL-SN-864097			US-PATENT-CLASS-179-100-2MD			US-PATENT-3,591,967
N71-33436*	c 07	US-PATENT-CLASS-333-21A	N72-11175*	c 09	US-PATENT-CLASS-274-4R	N72-12102*	c 07	NASA-CASE-GSC-10087-3
		US-PATENT-CLASS-333-6			US-PATENT-3,592,478			US-PATENT-APPL-SN-880885
N71-33437*	c 11	US-PATENT-CLASS-333-7	N72-11176*	c 09	NASA-CASE-KSC-10162	N72-12103*	c 09	US-PATENT-CLASS-325-4
		US-PATENT-3,588,751			US-PATENT-APPL-SN-817481			US-PATENT-CLASS-343-6.5R
N71-33438*	c 11	NASA-CASE-XLA-09480	N72-11177*	c 10	US-PATENT-CLASS-324-102	N72-12104*	c 07	US-PATENT-CLASS-343-6.8R
		US-PATENT-APPL-SN-874435			US-PATENT-CLASS-324-119			US-PATENT-3,594,790
N71-33439*	c 07	US-PATENT-CLASS-73-147	N72-11178*	c 10	US-PATENT-CLASS-324-123R	N72-12105*	c 07	NASA-CASE-GSC-10185-1
		US-PATENT-3,587,306			US-PATENT-3,593,132			US-PATENT-APPL-SN-733039
N71-33440*	c 07	NASA-CASE-NPO-10700	N72-11179*	c 10	NASA-CASE-ARC-10042-2	N72-12106*	c 09	US-PATENT-CLASS-178-DIG.12
		US-PATENT-APPL-SN-840308			US-PATENT-APPL-SN-33159			US-PATENT-CLASS-178-6
N71-33441*	c 07	US-PATENT-CLASS-318-227	N72-11180*	c 10	US-PATENT-CLASS-330-107	N72-12107*	c 09	US-PATENT-CLASS-178-7.3
		US-PATENT-CLASS-318-230			US-PATENT-CLASS-330-109			US-PATENT-CLASS-325-10
N71-33442*	c 07	US-PATENT-3,588,648	N72-11181*	c 14	US-PATENT-3,593,175	N72-12108*	c 09	US-PATENT-CLASS-325-13
		NASA-CASE-MS-12165-1			NASA-CASE-MS-11847-1			US-PATENT-3,588,331
N71-33443*	c 07	US-PATENT-APPL-SN-875849	N72-11182*	c 14	US-PATENT-APPL-SN-8497	N72-12109*	c 09	NASA-CASE-XER-09521
		US-PATENT-CLASS-325-347			US-PATENT-CLASS-73-149			US-PATENT-APPL-SN-771530
N71-33444*	c 07	US-PATENT-CLASS-325-348	N72-11183*	c 14	US-PATENT-CLASS-73-290B	N72-12110*	c 09	US-PATENT-CLASS-136-202
		US-PATENT-CLASS-325-473			US-PATENT-3,596,510			US-PATENT-CLASS-136-206
N71-33445*	c 07	US-PATENT-CLASS-325-478	N72-11184*	c 14	NASA-CASE-NPO-10778	N72-12111*	c 09	US-PATENT-CLASS-136-227
		US-PATENT-CLASS-325-480			US-PATENT-APPL-SN-865909			US-PATENT-CLASS-343-DIG.3
N71-33446*	c 07	US-PATENT-CLASS-325-482	N72-11185*	c 14	US-PATENT-CLASS-250-235	N72-12112*	c 09	US-PATENT-CLASS-343-720
		US-PATENT-CLASS-328-164			US-PATENT-CLASS-33-125			US-PATENT-CLASS-343-840
N71-33447*	c 07	US-PATENT-CLASS-328-165	N72-11186*	c 14	US-PATENT-CLASS-356-167	N72-12113*	c 09	US-PATENT-3,594,803
		US-PATENT-CLASS-328-166			US-PATENT-CLASS-356-32			US-PATENT-XLA-05966

		US-PATENT-APPL-SN-784544			US-PATENT-APPL-SN-887698	N72-17451*	c 15	NASA-CASE-WLP-10002
		US-PATENT-CLASS-140-105			US-PATENT-CLASS-128-2.1A			US-PATENT-APPL-SN-47062
		US-PATENT-CLASS-72-307			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-180-125
N72-12409*	c 15	NASA-CASE-NPO-10637			US-PATENT-CLASS-325-492			US-PATENT-CLASS-180-127
		US-PATENT-APPL-SN-851298			US-PATENT-CLASS-340-177			US-PATENT-CLASS-308-DIG.1
		US-PATENT-CLASS-236-68	N72-17154*	c 09	US-PATENT-3,603,946			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-337-354			NASA-CASE-ERC-10139	N72-17452*	c 15	US-PATENT-CLASS-308-9
		US-PATENT-CLASS-337-359			US-PATENT-APPL-SN-889555			US-PATENT-3,610,365
		US-PATENT-CLASS-337-75			US-PATENT-CLASS-321-10			NASA-CASE-XLA-10322
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-336-178			US-PATENT-APPL-SN-887699
		US-PATENT-3,591,960			US-PATENT-3,603,864			US-PATENT-CLASS-73-88.5R
N72-12440*	c 16	NASA-CASE-MFS-20180	N72-17155*	c 09	NASA-CASE-NPO-11023	N72-17453*	c 15	US-PATENT-3,608,365
		US-PATENT-APPL-SN-863276			US-PATENT-APPL-SN-865274			NASA-CASE-NPO-11177
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-330-18			US-PATENT-APPL-SN-20960
		US-PATENT-CLASS-350-1			US-PATENT-CLASS-330-40			US-PATENT-CLASS-62-51
		US-PATENT-CLASS-350-312			US-PATENT-3,603,892	N72-17454*	c 15	US-PATENT-3,605,424
		US-PATENT-3,593,194	N72-17156*	c 09	NASA-CASE-NPO-10199			NASA-CASE-NPO-11059
N72-13437*	c 16	NASA-CASE-MFS-20125			US-PATENT-APPL-SN-739391			US-PATENT-APPL-SN-864020
		US-PATENT-APPL-SN-830366			US-PATENT-CLASS-178-7.1			US-PATENT-CLASS-248-14
		US-PATENT-CLASS-178-DIG.21			US-PATENT-CLASS-330-11	N72-17455*	c 15	US-PATENT-3,606,979
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-330-35			NASA-CASE-NPO-11140
		US-PATENT-CLASS-250-203X			US-PATENT-3,609,230			US-PATENT-APPL-SN-15019
		US-PATENT-CLASS-356-152	N72-17157*	c 09	NASA-CASE-NPO-11253			US-PATENT-CLASS-174-84
		US-PATENT-3,603,686			US-PATENT-APPL-SN-21906			US-PATENT-CLASS-200-64
N72-15098* #	c 05	NASA-CASE-MSC-13917-1			US-PATENT-CLASS-307-223			US-PATENT-CLASS-339-176M
		US-PATENT-APPL-SN-198355			US-PATENT-CLASS-307-227			US-PATENT-CLASS-339-278M
N72-15986*	c 03	NASA-CASE-XGS-10010			US-PATENT-CLASS-307-81			US-PATENT-CLASS-339-46
		US-PATENT-APPL-SN-729299			US-PATENT-CLASS-328-186			US-PATENT-CLASS-89-1.811
		US-PATENT-CLASS-136-133			US-PATENT-3,609,387	N72-17532*	c 18	US-PATENT-3,611,274
		US-PATENT-CLASS-136-135	N72-17171*	c 10	NASA-CASE-XAC-05462-2			NASA-CASE-MFS-13532
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-28235			US-PATENT-APPL-SN-720546
		US-PATENT-3,607,401			US-PATENT-CLASS-307-295			US-PATENT-CLASS-106-292
N72-16015*	c 05	NASA-CASE-KSC-10278			US-PATENT-CLASS-328-167			US-PATENT-CLASS-106-299
		US-PATENT-APPL-SN-856327			US-PATENT-CLASS-330-109	N72-17747*	c 23	US-PATENT-3,607,338
		US-PATENT-CLASS-324-66			US-PATENT-CLASS-330-176			NASA-CASE-ERC-10089
		US-PATENT-CLASS-340-279			US-PATENT-CLASS-333-70CR			US-PATENT-APPL-SN-791267
		US-PATENT-CLASS-35-8			US-PATENT-3,609,567			US-PATENT-CLASS-340-174AG
		US-PATENT-3,609,740	N72-17172*	c 10	NASA-CASE-ARC-10020			US-PATENT-CLASS-340-174GA
N72-16172*	c 10	NASA-CASE-ARC-10269-1			US-PATENT-APPL-SN-31885			US-PATENT-CLASS-340-174SC
		US-PATENT-APPL-SN-56791			US-PATENT-CLASS-330-107			US-PATENT-3,611,330
		US-PATENT-CLASS-307-230			US-PATENT-CLASS-330-109	N72-17820*	c 26	NASA-CASE-XER-08476-1
		US-PATENT-CLASS-307-262			US-PATENT-CLASS-330-26			US-PATENT-APPL-SN-672388
		US-PATENT-CLASS-328-155			US-PATENT-CLASS-330-31			US-PATENT-CLASS-148-187
		US-PATENT-3,614,475			US-PATENT-CLASS-330-94			US-PATENT-CLASS-29-578
N72-16282*	c 14	NASA-CASE-LAR-10913			US-PATENT-3,605,032			US-PATENT-CLASS-29-589
		US-PATENT-APPL-SN-779160	N72-17173*	c 10	NASA-CASE-MFS-13130			US-PATENT-3,602,984
		US-PATENT-CLASS-73-12			US-PATENT-APPL-SN-7868	N72-17843*	c 28	NASA-CASE-NPO-10046
		US-PATENT-3,605,482			US-PATENT-CLASS-250-209			US-PATENT-APPL-SN-860635
N72-16283*	c 14	NASA-CASE-GSC-10780-1			US-PATENT-CLASS-250-83.3UV			US-PATENT-CLASS-60-258
		US-PATENT-APPL-SN-860493			US-PATENT-CLASS-340-228.2			US-PATENT-CLASS-60-39.74
		US-PATENT-CLASS-82-24R			US-PATENT-3,609,364			US-PATENT-3,603,092
		US-PATENT-3,608,409	N72-17183*	c 11	NASA-CASE-MFS-20509	N72-17873*	c 30	NASA-CASE-ARC-10134
N72-16329*	c 15	NASA-CASE-XLA-07829			US-PATENT-APPL-SN-889557			US-PATENT-APPL-SN-819898
		US-PATENT-APPL-SN-763684			US-PATENT-CLASS-73-147			US-PATENT-CLASS-244-3.21
		US-PATENT-CLASS-264-DIG.44			US-PATENT-3,602,920			US-PATENT-3,603,532
		US-PATENT-CLASS-264-221	N72-17323*	c 14	NASA-CASE-ERC-10248	N72-17947*	c 33	NASA-CASE-MSC-12143-1
		US-PATENT-CLASS-264-225			US-PATENT-APPL-SN-868445			US-PATENT-APPL-SN-791268
		US-PATENT-CLASS-264-227			US-PATENT-CLASS-350-162			US-PATENT-CLASS-102-105
		US-PATENT-3,608,046			US-PATENT-CLASS-356-113			US-PATENT-CLASS-161-67
N72-16330*	c 15	NASA-CASE-LAR-10203-1			US-PATENT-CLASS-356-209			US-PATENT-CLASS-244-117
		US-PATENT-APPL-SN-769592			US-PATENT-CLASS-356-244			US-PATENT-3,603,260
		US-PATENT-CLASS-156-84			US-PATENT-3,603,690	N72-17948*	c 33	NASA-CASE-NPO-10828
		US-PATENT-CLASS-156-86	N72-17324*	c 14	NASA-CASE-MFS-20596			US-PATENT-APPL-SN-873260
		US-PATENT-3,607,495			US-PATENT-APPL-SN-7867			US-PATENT-CLASS-165-105
N72-17093*	c 06	NASA-CASE-LEW-10794-1			US-PATENT-CLASS-350-3.5			US-PATENT-3,603,382
		US-PATENT-APPL-SN-33535			US-PATENT-3,605,519	N72-18184*	c 08	NASA-CASE-NPO-10629
		US-PATENT-CLASS-23-55	N72-17325*	c 14	NASA-CASE-MSC-15158-1			US-PATENT-APPL-SN-860751
		US-PATENT-CLASS-23-88			US-PATENT-APPL-SN-889479			US-PATENT-CLASS-178-50
		US-PATENT-CLASS-23-97			US-PATENT-CLASS-324-52			US-PATENT-CLASS-178-66
		US-PATENT-3,607,015			US-PATENT-3,609,535			US-PATENT-CLASS-179-15
N72-17094*	c 06	NASA-CASE-NPO-10234	N72-17326*	c 14	NASA-CASE-XMS-01994-1			US-PATENT-CLASS-235-154
		US-PATENT-APPL-SN-800204			US-PATENT-APPL-SN-814212			US-PATENT-CLASS-340-347DD
		US-PATENT-CLASS-23-230R			US-PATENT-CLASS-356-4			US-PATENT-3,603,976
		US-PATENT-CLASS-23-232C			US-PATENT-3,603,683	N72-18411*	c 14	NASA-CASE-KSC-10294
		US-PATENT-CLASS-23-253PC	N72-17327*	c 14	NASA-CASE-LEW-10281-1			US-PATENT-APPL-SN-889556
		US-PATENT-CLASS-73-23.1			US-PATENT-APPL-SN-861649			US-PATENT-CLASS-307-311
		US-PATENT-3,607,076			US-PATENT-CLASS-73-198			US-PATENT-CLASS-346-107A
N72-17095*	c 06	NASA-CASE-NPO-10774			US-PATENT-3,605,495			US-PATENT-CLASS-346-23
		US-PATENT-APPL-SN-848805	N72-17328*	c 14	NASA-CASE-XLA-07813			US-PATENT-CLASS-352-84
		US-PATENT-CLASS-23-201			US-PATENT-APPL-SN-791364			US-PATENT-CLASS-95-1.1
		US-PATENT-CLASS-23-230			US-PATENT-CLASS-250-207			US-PATENT-3,603,974
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-250-41.9	N72-18477*	c 15	NASA-CASE-GSC-10566-1
		US-PATENT-CLASS-73-76			US-PATENT-CLASS-250-49.5			US-PATENT-APPL-SN-889438
		US-PATENT-3,607,080			US-PATENT-CLASS-250-71.5			US-PATENT-CLASS-242-54
N72-17109*	c 07	NASA-CASE-MSC-12146-1			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-52-108
		US-PATENT-APPL-SN-50206			US-PATENT-3,609,353	N72-18766*	c 28	US-PATENT-3,608,844
		US-PATENT-CLASS-178-5.2R	N72-17329*	c 14	NASA-CASE-FRC-10012			NASA-CASE-GSC-10640-1
		US-PATENT-CLASS-178-6.7			US-PATENT-APPL-SN-771216			US-PATENT-APPL-SN-17101
		US-PATENT-CLASS-3,603,722			US-PATENT-CLASS-73-194A			US-PATENT-CLASS-23-281
N72-17152*	c 09	NASA-CASE-ARC-10178-1			US-PATENT-3,611,801			US-PATENT-CLASS-23-288
		US-PATENT-APPL-SN-47443	N72-17450*	c 15	NASA-CASE-MSC-12279			US-PATENT-CLASS-60-260
		US-PATENT-CLASS-250-211J			US-PATENT-APPL-SN-24154			US-PATENT-3,603,093
		US-PATENT-3,603,798			US-PATENT-CLASS-188-1C	N72-18859*	c 31	NASA-CASE-MSC-13281
N72-17153*	c 09	NASA-CASE-ARC-10105			US-PATENT-CLASS-188-129			US-PATENT-APPL-SN-7669
					US-PATENT-3,603,433			US-PATENT-CLASS-244-15.5

N72-20031*	c 03	US-PATENT-3,606,212 NASA-CASE-GSC-10669-1 US-PATENT-APPL-SN-90595 US-PATENT-CLASS-136-89 US-PATENT-CLASS-244-155 US-PATENT-CLASS-340-210 US-PATENT-3,636,539	N72-20222*	c 10	US-PATENT-CLASS-307-313 US-PATENT-CLASS-328-207 US-PATENT-CLASS-330-30D US-PATENT-3,633,048 NASA-CASE-XLA-11189 US-PATENT-APPL-SN-889375 US-PATENT-CLASS-324-115 US-PATENT-CLASS-324-132 US-PATENT-3,638,114	N72-21094*	c 06	US-PATENT-APPL-SN-10161 US-PATENT-CLASS-122-32 US-PATENT-CLASS-165-133 US-PATENT-CLASS-165-155 US-PATENT-CLASS-165-158 US-PATENT-CLASS-165-161 US-PATENT-CLASS-165-174 US-PATENT-3,630,276
N72-20032*	c 03	NASA-CASE-NPO-11021 US-PATENT-APPL-SN-880250 US-PATENT-CLASS-136-166 US-PATENT-CLASS-136-79 US-PATENT-CLASS-136-81 US-PATENT-3,625,766	N72-20223*	c 10	NASA-CASE-NPO-11133 US-PATENT-APPL-SN-887685 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-16 US-PATENT-CLASS-328-166 US-PATENT-CLASS-328-20 US-PATENT-CLASS-328-38 US-PATENT-3,626,308	N72-21105* #	c 06	NASA-CASE-ERC-10108 US-PATENT-APPL-SN-833049 US-PATENT-CLASS-156-3 US-PATENT-CLASS-96-36.2 US-PATENT-3,615,465
N72-20033*	c 03	NASA-CASE-NPO-10401 US-PATENT-APPL-SN-15025 US-PATENT-CLASS-210-212 US-PATENT-CLASS-356-222 US-PATENT-3,630,627	N72-20224*	c 10	NASA-CASE-NPO-11203 US-PATENT-APPL-SN-3696 US-PATENT-CLASS-324-83A US-PATENT-CLASS-324-85 US-PATENT-CLASS-328-133 US-PATENT-CLASS-343-12 US-PATENT-3,631,351	N72-21117*	c 07	NASA-CASE-XLA-11154 US-PATENT-APPL-SN-23532 US-PATENT-CLASS-343-706 US-PATENT-CLASS-343-912 US-PATENT-3,623,107
N72-20034*	c 03	NASA-CASE-LEW-11359-2 US-PATENT-APPL-SN-57399 US-PATENT-CLASS-136-100R US-PATENT-CLASS-136-175 US-PATENT-CLASS-136-83R US-PATENT-3,635,765	N72-20225*	c 10	NASA-CASE-MSC-13407-1 US-PATENT-APPL-SN-65840 US-PATENT-CLASS-315-22 US-PATENT-CLASS-315-25 US-PATENT-3,638,066	N72-21118*	c 07	NASA-CASE-NPO-11001 US-PATENT-APPL-SN-856279 US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-5CM US-PATENT-CLASS-343-6.5R US-PATENT-3,624,650
N72-20096*	c 05	NASA-CASE-MSC-12411-1 US-PATENT-APPL-SN-701244 US-PATENT-CLASS-128-142.5 US-PATENT-CLASS-128-402 US-PATENT-CLASS-2-2.1 US-PATENT-3,635,216	N72-20244*	c 11	NASA-CASE-NPO-11210 US-PATENT-APPL-SN-880831 US-PATENT-CLASS-123-102 US-PATENT-CLASS-180-105E US-PATENT-CLASS-318-308 US-PATENT-CLASS-318-327 US-PATENT-CLASS-318-376 US-PATENT-3,630,304	N72-21119*	c 07	NASA-CASE-ERC-10112 US-PATENT-APPL-SN-796690 US-PATENT-CLASS-179-100.2K US-PATENT-3,614,343
N72-20097*	c 05	NASA-CASE-MFS-20332 US-PATENT-APPL-SN-869260 US-PATENT-CLASS-137-469 US-PATENT-CLASS-137-81 US-PATENT-3,636,966	N72-20379*	c 14	NASA-CASE-GSC-10514-1 US-PATENT-APPL-SN-873045 US-PATENT-CLASS-250-208 US-PATENT-CLASS-356-138 US-PATENT-CLASS-356-152 US-PATENT-3,637,312	N72-21197*	c 08	NASA-CASE-KSC-10326 US-PATENT-APPL-SN-25487 US-PATENT-CLASS-235-155 US-PATENT-CLASS-340-347DD US-PATENT-3,638,002
N72-20098*	c 05	NASA-CASE-MSC-12398 US-PATENT-APPL-SN-785615 US-PATENT-CLASS-2-2.1 US-PATENT-3,624,839	N72-20380*	c 14	NASA-CASE-LAR-10176-1 US-PATENT-APPL-SN-811038 US-PATENT-CLASS-95-18 US-PATENT-3,626,828	N72-21198*	c 08	NASA-CASE-ERC-10307 US-PATENT-APPL-SN-39755 US-PATENT-CLASS-307-299 US-PATENT-CLASS-307-303 US-PATENT-CLASS-307-311 US-PATENT-CLASS-340-173.2 US-PATENT-CLASS-340-173LS US-PATENT-3,623,030
N72-20121*	c 06	NASA-CASE-NPO-10765 US-PATENT-APPL-SN-770425 US-PATENT-CLASS-260-544F US-PATENT-3,637,842	N72-20442*	c 15	NASA-CASE-GSC-10607-1 US-PATENT-APPL-SN-27340 US-PATENT-CLASS-251-129 US-PATENT-CLASS-251-333 US-PATENT-3,632,081	N72-21199*	c 08	NASA-CASE-NPO-10743 US-PATENT-APPL-SN-850587 US-PATENT-CLASS-340-174CS US-PATENT-CLASS-340-174LC US-PATENT-CLASS-340-174M US-PATENT-CLASS-340-174SR US-PATENT-3,613,110
N72-20140*	c 07	NASA-CASE-NPO-10844 US-PATENT-APPL-SN-839934 US-PATENT-CLASS-178-69.5R US-PATENT-CLASS-179-15BS US-PATENT-CLASS-325-321 US-PATENT-CLASS-325-38 US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-58 US-PATENT-3,626,298	N72-20443*	c 15	NASA-CASE-NPO-10671 US-PATENT-APPL-SN-857967 US-PATENT-CLASS-188-1B US-PATENT-CLASS-188-1C US-PATENT-CLASS-188-268 US-PATENT-3,637,051	N72-21200*	c 08	NASA-CASE-NPO-11018 US-PATENT-APPL-SN-873259 US-PATENT-CLASS-340-347AD US-PATENT-3,613,111
N72-20141*	c 07	NASA-CASE-ERC-10179 US-PATENT-APPL-SN-50207 US-PATENT-CLASS-325-445 US-PATENT-CLASS-329-161 US-PATENT-CLASS-329-162 US-PATENT-CLASS-332-51W US-PATENT-CLASS-333-73W US-PATENT-CLASS-343-772 US-PATENT-CLASS-343-773 US-PATENT-CLASS-343-786 US-PATENT-3,633,110	N72-20444*	c 15	NASA-CASE-FRC-10038 US-PATENT-APPL-SN-889554 US-PATENT-CLASS-29-412 US-PATENT-CLASS-29-426 US-PATENT-CLASS-29-527.2 US-PATENT-CLASS-29-624 US-PATENT-CLASS-51-216 US-PATENT-CLASS-51-320 US-PATENT-CLASS-51-323 US-PATENT-3,636,623	N72-21243*	c 09	NASA-CASE-LEW-11005-1 US-PATENT-APPL-SN-86548 US-PATENT-CLASS-323-DIG.1 US-PATENT-CLASS-323-22T US-PATENT-CLASS-323-38 US-PATENT-3,638,103
N72-20154* #	c 07	NASA-CASE-NPO-11243 US-PATENT-APPL-SN-177753	N72-20445*	c 15	NASA-CASE-NPO-10704 US-PATENT-APPL-SN-59895 US-PATENT-CLASS-138-178 US-PATENT-CLASS-285-18 US-PATENT-CLASS-285-345 US-PATENT-3,632,140	N72-21244*	c 09	NASA-CASE-LAR-10545-1 US-PATENT-APPL-SN-31703 US-PATENT-CLASS-343-771 US-PATENT-CLASS-343-893 US-PATENT-3,638,224
N72-20176*	c 08	NASA-CASE-NPO-11130 US-PATENT-APPL-SN-21508 US-PATENT-CLASS-235-152 US-PATENT-CLASS-235-92CC US-PATENT-CLASS-235-92DE US-PATENT-CLASS-235-92DM US-PATENT-CLASS-235-92LG US-PATENT-CLASS-235-92R US-PATENT-CLASS-340-347DA US-PATENT-CLASS-340-347DD US-PATENT-3,632,996	N72-20446*	c 15	NASA-CASE-MFS-20698 US-PATENT-APPL-SN-3418 US-PATENT-CLASS-100-299 US-PATENT-CLASS-23-209.1 US-PATENT-CLASS-264-22 US-PATENT-CLASS-425-77 US-PATENT-3,632,242	N72-21245*	c 09	NASA-CASE-ARC-10192 US-PATENT-APPL-SN-15024 US-PATENT-CLASS-307-230 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-142 US-PATENT-CLASS-328-167 US-PATENT-CLASS-330-70R US-PATENT-CLASS-330-85 US-PATENT-CLASS-333-80 US-PATENT-3,621,407
N72-20177*	c 08	NASA-CASE-NPO-10748 US-PATENT-APPL-SN-63383 US-PATENT-CLASS-324-77G US-PATENT-3,631,339	N72-20597*	c 22	NASA-CASE-XLE-04599 US-PATENT-APPL-SN-751215 US-PATENT-CLASS-176-86G US-PATENT-3,629,068	N72-21246*	c 09	NASA-CASE-NPO-11134 US-PATENT-APPL-SN-883524 US-PATENT-CLASS-318-576 US-PATENT-CLASS-324-71R US-PATENT-CLASS-346-1 US-PATENT-CLASS-346-29 US-PATENT-3,624,659
N72-20199*	c 09	NASA-CASE-NPO-10722 US-PATENT-APPL-SN-860492 US-PATENT-CLASS-200-81.9M US-PATENT-CLASS-335-205 US-PATENT-3,632,923	N72-20758*	c 28	NASA-CASE-XNP-03282 US-PATENT-APPL-SN-745337 US-PATENT-CLASS-60-254 US-PATENT-3,636,711	N72-21247*	c 09	NASA-CASE-KSC-10393 US-PATENT-APPL-SN-71047 US-PATENT-CLASS-307-257 US-PATENT-CLASS-307-259 US-PATENT-CLASS-331-111 US-PATENT-CLASS-331-14 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-30 US-PATENT-3,614,648
N72-20200*	c 09	NASA-CASE-NPO-10694 US-PATENT-APPL-SN-24224 US-PATENT-CLASS-339-275T US-PATENT-CLASS-339-276T US-PATENT-3,631,382	N72-20840* #	c 31	NASA-CASE-MFS-20922 US-PATENT-APPL-SN-220274	N72-21248* #	c 09	NASA-CASE-LAR-10503-1 US-PATENT-APPL-SN-229143
N72-20206* #	c 09	NASA-CASE-ERC-10468 US-PATENT-APPL-SN-144958	N72-20915*	c 33	NASA-CASE-NPO-10831	N72-21310*	c 12	NASA-CASE-MFS-20829 US-PATENT-APPL-SN-61894 US-PATENT-CLASS-169-28
N72-20221*	c 10	NASA-CASE-GSC-10082-1 US-PATENT-APPL-SN-41430 US-PATENT-CLASS-307-273 US-PATENT-CLASS-307-288						

		US-PATENT-CLASS-169-36				US-PATENT-APPL-SN-78065			US-PATENT-CLASS-325-29
		US-PATENT-3,613,794				US-PATENT-CLASS-178-52			US-PATENT-CLASS-325-492
N72-21405*	c 14	NASA-CASE-NPO-10832				US-PATENT-CLASS-179-15A			US-PATENT-CLASS-340-171
		US-PATENT-APPL-SN-22265				US-PATENT-CLASS-179-15BL			US-PATENT-CLASS-340-203
		US-PATENT-CLASS-73-141A				US-PATENT-CLASS-307-243			US-PATENT-3,621,290
		US-PATENT-3,623,360				US-PATENT-CLASS-307-251	N72-22203*	c 09	NASA-CASE-XER-11046
N72-21407*	c 14	NASA-CASE-MFS-20642				US-PATENT-CLASS-328-104			US-PATENT-APPL-SN-810579
		US-PATENT-APPL-SN-873793				US-PATENT-CLASS-328-154			US-PATENT-CLASS-321-15
		US-PATENT-CLASS-73-147				US-PATENT-3,614,327			US-PATENT-CLASS-321-18
		US-PATENT-3,623,361	N72-22163*	c 08	NASA-CASE-MSC-13110-1				US-PATENT-CLASS-321-2
N72-21408*	c 14	NASA-CASE-MSC-13332-1			US-PATENT-APPL-SN-23132				US-PATENT-CLASS-321-45
		US-PATENT-APPL-SN-77169			US-PATENT-CLASS-340-347AD				US-PATENT-CLASS-331-117
		US-PATENT-CLASS-250-43.5R			US-PATENT-3,614,772				US-PATENT-3,621,362
		US-PATENT-CLASS-250-83.3H	N72-22164*	c 08	NASA-CASE-NPO-10745		N72-22204*	c 09	NASA-CASE-LAR-10137-1
		US-PATENT-3,614,431			US-PATENT-APPL-SN-878730				US-PATENT-APPL-SN-881041
N72-21409*	c 14	NASA-CASE-MSC-12105-1			US-PATENT-CLASS-178-DIG.28				US-PATENT-CLASS-200-81R
		US-PATENT-APPL-SN-763743			US-PATENT-CLASS-178-DIG.36				US-PATENT-CLASS-200-82C
		US-PATENT-CLASS-356-17			US-PATENT-CLASS-178-6.8				US-PATENT-3,609,271
		US-PATENT-CLASS-356-18			US-PATENT-CLASS-178-7.2R		N72-22235*	c 10	NASA-CASE-GSC-10064-1
		US-PATENT-3,614,228			US-PATENT-3,621,130				US-PATENT-APPL-SN-802812
N72-21462*	c 15	NASA-CASE-NPO-10679	N72-22165*	c 08	NASA-CASE-NPO-11104				US-PATENT-CLASS-343-16M
		US-PATENT-APPL-SN-848282			US-PATENT-APPL-SN-860750				US-PATENT-CLASS-343-7.4
		US-PATENT-CLASS-74-89.15			US-PATENT-CLASS-235-150.52				US-PATENT-CLASS-343-779
		US-PATENT-3,614,898			US-PATENT-CLASS-235-150.53				US-PATENT-CLASS-343-786
N72-21463*	c 15	NASA-CASE-MFS-20413			US-PATENT-CLASS-235-183				US-PATENT-3,623,094
		US-PATENT-APPL-SN-69209			US-PATENT-CLASS-235-194		N72-22236*	c 10	NASA-CASE-GSC-10878-1
		US-PATENT-CLASS-74-469			US-PATENT-CLASS-235-197				US-PATENT-APPL-SN-889423
		US-PATENT-3,620,095			US-PATENT-CLASS-340-347R				US-PATENT-CLASS-307-206
N72-21464*	c 15	NASA-CASE-ARC-10176-1	N72-22166*	c 08	US-PATENT-3,621,228				US-PATENT-CLASS-307-215
		US-PATENT-APPL-SN-889583			NASA-CASE-NPO-10560				US-PATENT-CLASS-307-322
		US-PATENT-CLASS-324-57R			US-PATENT-APPL-SN-856282				US-PATENT-CLASS-307-323
		US-PATENT-CLASS-324-64			US-PATENT-CLASS-235-153				US-PATENT-3,621,277
		US-PATENT-CLASS-324-71R			US-PATENT-CLASS-324-73AT		N72-22245*	c 11	NASA-CASE-NPO-12109
		US-PATENT-3,624,496			US-PATENT-CLASS-340-347AD				US-PATENT-APPL-SN-690172
N72-21465*	c 15	NASA-CASE-GSC-10218-1			US-PATENT-3,603,772				US-PATENT-CLASS-230-221
		US-PATENT-APPL-SN-15022	N72-22167*	c 08	NASA-CASE-NPO-11082				US-PATENT-CLASS-230-54
		US-PATENT-CLASS-141-23			US-PATENT-APPL-SN-868529				US-PATENT-3,612,391
		US-PATENT-CLASS-195-127			US-PATENT-CLASS-235-152		N72-22246*	c 11	NASA-CASE-XLA-07430
		US-PATENT-CLASS-222-135			US-PATENT-CLASS-340-146.1				US-PATENT-APPL-SN-867841
		US-PATENT-CLASS-222-309			US-PATENT-CLASS-340-348				US-PATENT-CLASS-73-147
		US-PATENT-CLASS-222-71			US-PATENT-3,609,327				US-PATENT-3,620,076
		US-PATENT-CLASS-23-253R	N72-22195*	c 09	NASA-CASE-MFS-14710		N72-22247*	c 11	NASA-CASE-NPO-11013
		US-PATENT-CLASS-23-259			US-PATENT-APPL-SN-852843				US-PATENT-APPL-SN-858695
		US-PATENT-CLASS-73-425.6			US-PATENT-CLASS-74-105				US-PATENT-CLASS-42-1F
		US-PATENT-3,615,241			US-PATENT-3,614,899				US-PATENT-3,619,924
N72-21466*	c 15	NASA-CASE-NPO-10440	N72-22196*	c 09	NASA-CASE-ERC-10075-2		N72-22437*	c 14	NASA-CASE-LAR-10496-1
		US-PATENT-APPL-SN-756834			US-PATENT-APPL-SN-775870				US-PATENT-APPL-SN-12661
		US-PATENT-CLASS-204-130			US-PATENT-CLASS-321-14				US-PATENT-CLASS-73-141A
		US-PATENT-CLASS-204-59			US-PATENT-CLASS-321-19				US-PATENT-3,611,798
		US-PATENT-3,616,338			US-PATENT-CLASS-321-2		N72-22438*	c 14	NASA-CASE-ARC-10263-1
N72-21489* #	c 15	NASA-CASE-XLA-10470			US-PATENT-CLASS-321-25				US-PATENT-APPL-SN-882122
		US-PATENT-APPL-SN-219436			US-PATENT-CLASS-323-56				US-PATENT-CLASS-73-398C
N72-21624*	c 21	NASA-CASE-HQN-10439			US-PATENT-CLASS-323-89C				US-PATENT-3,620,083
		US-PATENT-APPL-SN-889551			US-PATENT-3,614,587		N72-22439*	c 14	NASA-CASE-MFS-20890
		US-PATENT-CLASS-244-1SA	N72-22197*	c 09	NASA-CASE-LEW-10433-1				US-PATENT-APPL-SN-103229
		US-PATENT-3,637,170			US-PATENT-APPL-SN-849106				US-PATENT-CLASS-264-22
N72-21701*	c 26	NASA-CASE-ERC-10119			US-PATENT-CLASS-307-262				US-PATENT-CLASS-29-421
		US-PATENT-APPL-SN-825258			US-PATENT-CLASS-307-88MP				US-PATENT-CLASS-310-11
		US-PATENT-CLASS-307-299			US-PATENT-3,612,895				US-PATENT-CLASS-310-42
		US-PATENT-CLASS-317-234V	N72-22198*	c 09	NASA-CASE-MFS-13687-2				US-PATENT-3,626,218
		US-PATENT-CLASS-317-235R			US-PATENT-APPL-SN-80369		N72-22440*	c 14	NASA-CASE-ARC-10154-1
		US-PATENT-CLASS-331-107			US-PATENT-CLASS-174-106R				US-PATENT-APPL-SN-793771
		US-PATENT-CLASS-332-31			US-PATENT-CLASS-174-117FF				US-PATENT-CLASS-73-67.2
		US-PATENT-3,614,557			US-PATENT-CLASS-174-36				US-PATENT-3,620,069
N72-21893* #	c 31	NASA-CASE-KSC-10622-1			US-PATENT-3,612,743		N72-22441*	c 14	NASA-CASE-NPO-11002
		US-PATENT-APPL-SN-149983	N72-22199*	c 09	NASA-CASE-ERC-10222				US-PATENT-APPL-SN-856328
N72-22041*	c 03	NASA-CASE-NPO-10591			US-PATENT-APPL-SN-832603				US-PATENT-CLASS-350-19
		US-PATENT-APPL-SN-776185			US-PATENT-CLASS-29-590				US-PATENT-CLASS-350-23
		US-PATENT-CLASS-29-572			US-PATENT-3,621,565				US-PATENT-CLASS-350-26
		US-PATENT-3,616,528	N72-22200*	c 09	NASA-CASE-FRC-10036				US-PATENT-CLASS-350-35
N72-22042*	c 03	NASA-CASE-NPO-10747			US-PATENT-APPL-SN-872602				US-PATENT-CLASS-350-36
		US-PATENT-APPL-SN-6616			US-PATENT-CLASS-307-237				US-PATENT-CLASS-350-49
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-307-254				US-PATENT-CLASS-350-52
		US-PATENT-3,615,853			US-PATENT-CLASS-307-317				US-PATENT-3,612,845
N72-22092*	c 05	NASA-CASE-ARC-10275-1			US-PATENT-CLASS-328-1		N72-22442*	c 14	NASA-CASE-MFS-21629
		US-PATENT-APPL-SN-21644			US-PATENT-CLASS-328-151				US-PATENT-APPL-SN-612265
		US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-73-88.5				US-PATENT-CLASS-324-61
		US-PATENT-3,636,564			US-PATENT-3,621,285				US-PATENT-CLASS-73-304
N72-22093*	c 05	NASA-CASE-MSC-12324-1	N72-22201*	c 09	NASA-CASE-LEW-10387				US-PATENT-3,639,835
		US-PATENT-APPL-SN-63384			US-PATENT-APPL-SN-76899				US-PATENT-CLASS-307-376
		US-PATENT-CLASS-128-295			US-PATENT-CLASS-307-223B		N72-22443*	c 14	NASA-CASE-XGS-03736
		US-PATENT-CLASS-4-110			US-PATENT-CLASS-307-241				US-PATENT-CLASS-252-300
		US-PATENT-CLASS-4-99			US-PATENT-CLASS-307-252J				US-PATENT-CLASS-96-90PC
		US-PATENT-3,602,923			US-PATENT-CLASS-307-252K				US-PATENT-3,639,250
N72-22107*	c 06	NASA-CASE-NPO-10862			US-PATENT-CLASS-307-284		N72-22444*	c 14	NASA-CASE-LAR-10523-1
		US-PATENT-APPL-SN-810815			US-PATENT-CLASS-307-304				US-PATENT-APPL-SN-32665
		US-PATENT-CLASS-260-877			US-PATENT-CLASS-307-317				US-PATENT-CLASS-250-203
		US-PATENT-3,639,510			US-PATENT-CLASS-328-106				US-PATENT-CLASS-350-16
N72-22127*	c 07	NASA-CASE-NPO-10303			US-PATENT-3,621,287				US-PATENT-CLASS-350-52
		US-PATENT-APPL-SN-848776	N72-22202*	c 09	NASA-CASE-ARC-10136-1				US-PATENT-CLASS-356-248
		US-PATENT-CLASS-343-771			US-PATENT-APPL-SN-865106				US-PATENT-3,647,276
		US-PATENT-CLASS-343-797			US-PATENT-CLASS-128-2.1A		N72-22445*	c 14	NASA-CASE-LAR-10184
		US-PATENT-CLASS-343-853			US-PATENT-CLASS-128-2R				US-PATENT-APPL-SN-16808
		US-PATENT-CLASS-343-912			US-PATENT-CLASS-307-231				US-PATENT-CLASS-33-174S
		US-PATENT-3,623,114			US-PATENT-CLASS-307-247				US-PATENT-CLASS-350-86
N72-22162*	c 08	NASA-CASE-NPO-11333			US-PATENT-CLASS-307-288				US-PATENT-3,620,595

N72-22482*	c 15	NASA-CASE-XLA-04897 US-PATENT-APPL-SN-880249 US-PATENT-CLASS-73-133 US-PATENT-3,613,457	N72-22772*	c 28	NASA-CASE-NPO-12072 US-PATENT-APPL-SN-82647 US-PATENT-CLASS-123-122AB US-PATENT-CLASS-137-81.5 US-PATENT-CLASS-261-145 US-PATENT-3,640,256	US-PATENT-CLASS-313-224 US-PATENT-CLASS-313-231 US-PATENT-CLASS-315-111 US-PATENT-CLASS-315-326 US-PATENT-CLASS-315-358 US-PATENT-CLASS-331-94.5 US-PATENT-3,617,804		
N72-22483*	c 15	NASA-CASE-XNP-09770-2 US-PATENT-APPL-SN-864039 US-PATENT-CLASS-209-349 US-PATENT-3,615,021	N72-22874*	c 31	NASA-CASE-NPO-10883 US-PATENT-APPL-SN-26573 US-PATENT-CLASS-136-89 US-PATENT-CLASS-312-257 US-PATENT-3,620,846	N72-25019*	c 03	NASA-CASE-NPO-10575 US-PATENT-APPL-SN-6615 US-PATENT-CLASS-156-250 US-PATENT-CLASS-156-510 US-PATENT-3,654,036
N72-22484*	c 15	NASA-CASE-LAR-10031 US-PATENT-APPL-SN-867851 US-PATENT-CLASS-62-55.5 US-PATENT-3,625,018	N72-23048*	c 03	NASA-CASE-NPO-11388 US-PATENT-APPL-SN-119282 US-PATENT-CLASS-310-2 US-PATENT-CLASS-321-2 US-PATENT-CLASS-322-2 US-PATENT-3,648,152	N72-25020*	c 03	NASA-CASE-GSC-11211-1 US-PATENT-APPL-SN-139528 US-PATENT-CLASS-235-92T US-PATENT-CLASS-307-141.8 US-PATENT-CLASS-320-48 US-PATENT-CLASS-324-29.5 US-PATENT-3,663,938
N72-22485*	c 15	NASA-CASE-MSC-13512-1 US-PATENT-APPL-SN-73932 US-PATENT-CLASS-74-501R US-PATENT-3,625,084	N72-23085*	c 05	NASA-CASE-LAR-10102-1 US-PATENT-APPL-SN-13266 US-PATENT-CLASS-224-25A US-PATENT-3,649,921	N72-25021*	c 03	NASA-CASE-NPO-11118 US-PATENT-APPL-SN-8650 US-PATENT-CLASS-214-90R US-PATENT-3,666,120
N72-22486*	c 15	NASA-CASE-KSC-10031 US-PATENT-APPL-SN-98773 US-PATENT-CLASS-220-5R US-PATENT-CLASS-317-101DH US-PATENT-CLASS-317-117 US-PATENT-CLASS-317-120 US-PATENT-3,639,809	N72-23171*	c 09	NASA-CASE-GSC-10221-1 US-PATENT-APPL-SN-779025 US-PATENT-CLASS-307-252N US-PATENT-CLASS-307-252R US-PATENT-CLASS-307-259 US-PATENT-CLASS-307-305 US-PATENT-3,621,294	N72-25119*	c 05	NASA-CASE-MSC-12397-1 US-PATENT-APPL-SN-785613 US-PATENT-CLASS-2-115 US-PATENT-CLASS-2-2.1 US-PATENT-3,660,851
N72-22487*	c 15	NASA-CASE-GSC-10303 US-PATENT-APPL-SN-802813 US-PATENT-CLASS-29-473.1 US-PATENT-3,619,896	N72-23172*	c 09	NASA-CASE-LAR-10320-1 US-PATENT-APPL-SN-18427 US-PATENT-CLASS-324-20R US-PATENT-3,649,907	N72-25120*	c 05	NASA-CASE-MSC-90153-2 US-PATENT-APPL-SN-844225 US-PATENT-CLASS-106-209 US-PATENT-CLASS-128-2.1 US-PATENT-CLASS-128-417 US-PATENT-CLASS-252-514 US-PATENT-CLASS-264-104 US-PATENT-3,665,064
N72-22488*	c 15	NASA-CASE-MSC-11849-1 US-PATENT-APPL-SN-6617 US-PATENT-CLASS-85-1 US-PATENT-3,623,394	N72-23173*	c 09	NASA-CASE-ERC-10267 US-PATENT-APPL-SN-41348 US-PATENT-CLASS-235-197 US-PATENT-CLASS-307-229 US-PATENT-CLASS-328-145 US-PATENT-3,648,043	N72-25121*	c 05	NASA-CASE-FRC-10029-2 US-PATENT-APPL-SN-78704 US-PATENT-CLASS-156-264 US-PATENT-CLASS-156-308 US-PATENT-CLASS-29-25.14 US-PATENT-CLASS-29-25.18 US-PATENT-CLASS-29-482 US-PATENT-CLASS-29-630A US-PATENT-3,662,441
N72-22489*	c 15	NASA-CASE-GSC-10518-1 US-PATENT-APPL-SN-789045 US-PATENT-CLASS-417-152 US-PATENT-CLASS-55-446 US-PATENT-CLASS-55-464 US-PATENT-3,623,828	N72-23215*	c 11	NASA-CASE-MFS-20710 US-PATENT-APPL-SN-114848 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-31 US-PATENT-3,647,924	N72-25122*	c 05	NASA-CASE-MSC-13609-1 US-PATENT-APPL-SN-94347 US-PATENT-CLASS-128-2N US-PATENT-3,662,744
N72-22490*	c 15	NASA-CASE-LEW-10856-1 US-PATENT-APPL-SN-3417 US-PATENT-CLASS-308-195 US-PATENT-3,620,585	N72-23457*	c 14	NASA-CASE-MSC-12297 US-PATENT-APPL-SN-792623 US-PATENT-CLASS-55-493 US-PATENT-CLASS-55-498 US-PATENT-CLASS-55-502 US-PATENT-CLASS-55-521 US-PATENT-3,650,095	N72-25146*	c 06	NASA-CASE-NPO-11322 US-PATENT-APPL-SN-87550 US-PATENT-CLASS-250-43.5R US-PATENT-CLASS-73-23.1 US-PATENT-3,666,942
N72-22491*	c 15	NASA-CASE-GSC-10913 US-PATENT-APPL-SN-889558 US-PATENT-CLASS-219-158 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-228-57 US-PATENT-CLASS-29-628 US-PATENT-3,621,194	N72-23497*	c 15	NASA-CASE-KSC-10242 US-PATENT-APPL-SN-73834 US-PATENT-CLASS-219-109 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-324-65R US-PATENT-3,621,193	N72-25147*	c 06	NASA-CASE-ARC-10325 US-PATENT-APPL-SN-63610 US-PATENT-CLASS-260-2.5FP US-PATENT-3,663,464
N72-22492*	c 15	NASA-CASE-MFS-20482 US-PATENT-APPL-SN-6610 US-PATENT-CLASS-29-472.9 US-PATENT-CLASS-29-473.1 US-PATENT-3,602,979	N72-23581*	c 18	NASA-CASE-GSC-10361-1 US-PATENT-APPL-SN-700040 US-PATENT-CLASS-106-84 US-PATENT-3,620,784	N72-25148*	c 06	NASA-CASE-MFS-13994-2 US-PATENT-APPL-SN-870689 US-PATENT-CLASS-260-348SC US-PATENT-3,660,434
N72-22520* #	c 16	NASA-CASE-LAR-10815-1 US-PATENT-APPL-SN-233587	N72-23695*	c 23	NASA-CASE-HQN-10541-3 US-PATENT-APPL-SN-822089 US-PATENT-CLASS-350-171 US-PATENT-3,606,522	N72-25149*	c 06	NASA-CASE-GSC-10565-1 US-PATENT-APPL-SN-822039 US-PATENT-CLASS-195-103.5R US-PATENT-CLASS-195-28N US-PATENT-CLASS-260-211.5 US-PATENT-3,660,240
N72-22530*	c 17	NASA-CASE-XLE-06461 US-PATENT-APPL-SN-853855 US-PATENT-CLASS-75-5B US-PATENT-3,623,861	N72-23809*	c 28	NASA-CASE-XNP-09461 US-PATENT-APPL-SN-670829 US-PATENT-CLASS-239-418 US-PATENT-CLASS-239-433 US-PATENT-CLASS-239-543 US-PATENT-3,650,474	N72-25150*	c 06	NASA-CASE-XLE-06774-2 US-PATENT-APPL-SN-5114 US-PATENT-CLASS-117-132 US-PATENT-CLASS-117-161 US-PATENT-CLASS-260-2.5 US-PATENT-CLASS-260-92.1 US-PATENT-3,666,741
N72-22535*	c 17	NASA-CASE-LEW-10874-1 US-PATENT-APPL-SN-68024 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-3,620,718	N72-23810*	c 28	NASA-CASE-NPO-11458 US-PATENT-APPL-SN-36926 US-PATENT-CLASS-60-266 US-PATENT-CLASS-60-271 US-PATENT-3,648,461	N72-25151*	c 06	NASA-CASE-MFS-20979 US-PATENT-APPL-SN-100774 US-PATENT-CLASS-260-18S US-PATENT-CLASS-260-448.2D US-PATENT-CLASS-260-46.5E US-PATENT-CLASS-260-46.5G US-PATENT-CLASS-260-46.5P US-PATENT-3,666,718
N72-22566*	c 18	NASA-CASE-MFS-20011 US-PATENT-APPL-SN-813338 US-PATENT-CLASS-106-286 US-PATENT-CLASS-106-288B US-PATENT-CLASS-106-84 US-PATENT-3,620,791	N72-24037*	c 03	NASA-CASE-GSC-11514-1 US-PATENT-APPL-SN-820453 US-PATENT-CLASS-117-201 US-PATENT-CLASS-136-89 US-PATENT-3,653,970	N72-25152*	c 06	NASA-CASE-NPO-10863-2 US-PATENT-APPL-SN-145026 US-PATENT-CLASS-260-92.1 US-PATENT-3,663,521
N72-22567*	c 18	NASA-CASE-NPO-11091 US-PATENT-APPL-SN-860781 US-PATENT-CLASS-260-2.1E US-PATENT-3,629,161	N72-24477*	c 14	NASA-CASE-ARC-10138-1 US-PATENT-APPL-SN-774733 US-PATENT-CLASS-250-83.3H US-PATENT-CLASS-317-247 US-PATENT-CLASS-324-61R US-PATENT-CLASS-73-355R US-PATENT-3,657,644	N72-25170*	c 07	NASA-CASE-LAR-10513-1 US-PATENT-APPL-SN-64723 US-PATENT-CLASS-333-7 US-PATENT-CLASS-333-81R US-PATENT-CLASS-333-98P US-PATENT-CLASS-333-98R US-PATENT-CLASS-333-98S US-PATENT-3,649,935
N72-22619*	c 21	NASA-CASE-ARC-10179-1 US-PATENT-APPL-SN-835058 US-PATENT-CLASS-244-114 US-PATENT-CLASS-340-26 US-PATENT-3,624,598	N72-24522*	c 15	NASA-CASE-NPO-11036 US-PATENT-APPL-SN-41346 US-PATENT-CLASS-264-92 US-PATENT-3,658,974	N72-25171*	c 07	NASA-CASE-MFS-21042
N72-22673*	c 23	NASA-CASE-XER-07896-2 US-PATENT-APPL-SN-36819 US-PATENT-CLASS-350-310 US-PATENT-3,620,606	N72-24753*	c 25	NASA-CASE-XNP-04167-2 US-PATENT-APPL-SN-866442 US-PATENT-CLASS-313-186 US-PATENT-CLASS-313-212			
N72-22769*	c 28	NASA-CASE-ARC-10106-1 US-PATENT-APPL-SN-812998 US-PATENT-CLASS-244-3.22 US-PATENT-3,612,442						
N72-22770*	c 28	NASA-CASE-LEW-10770-1 US-PATENT-APPL-SN-880246 US-PATENT-CLASS-60-202 US-PATENT-3,613,370						
N72-22771*	c 28	NASA-CASE-LEW-10835-1 US-PATENT-APPL-SN-67815 US-PATENT-CLASS-60-202 US-PATENT-3,620,018						

		US-PATENT-APPL-SN-86417				US-PATENT-CLASS-321-18				US-PATENT-CLASS-250-209
		US-PATENT-CLASS-102-34.4				US-PATENT-CLASS-321-19				US-PATENT-CLASS-250-226
		US-PATENT-CLASS-325-114				US-PATENT-CLASS-321-2				US-PATENT-CLASS-250-83.3UV
		US-PATENT-CLASS-325-4				US-PATENT-CLASS-321-45ER				US-PATENT-CLASS-350-203
		US-PATENT-CLASS-343-6.5R				US-PATENT-CLASS-321-45R				US-PATENT-3,657,549
		US-PATENT-3,667,044				US-PATENT-3,663,940		N72-25410*	c 14	NASA-CASE-ERC-10292
N72-25172*	c 07	NASA-CASE-NPO-11358	N72-25253*	c 09	NASA-CASE-GSC-11126-1					US-PATENT-APPL-SN-45519
		US-PATENT-APPL-SN-116786			US-PATENT-APPL-SN-98640					US-PATENT-CLASS-350-160R
		US-PATENT-CLASS-179-15BV			US-PATENT-CLASS-321-2					US-PATENT-CLASS-73-515
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-321-47					US-PATENT-CLASS-73-521
		US-PATENT-3,665,417			US-PATENT-CLASS-331-113A					US-PATENT-3,657,928
N72-25173*	c 07	NASA-CASE-ERC-10324	N72-25254*	c 09	US-PATENT-3,663,941			N72-25411*	c 14	NASA-CASE-MSC-15626-1
		US-PATENT-APPL-SN-54270			NASA-CASE-NPO-10760					US-PATENT-APPL-SN-94374
		US-PATENT-CLASS-178-69.5			US-PATENT-APPL-SN-129071					US-PATENT-CLASS-116-114AH
		US-PATENT-CLASS-325-141			US-PATENT-CLASS-321-2					US-PATENT-CLASS-73-12
		US-PATENT-CLASS-325-302			US-PATENT-CLASS-321-45R					US-PATENT-CLASS-73-492
		US-PATENT-CLASS-325-325			US-PATENT-CLASS-331-113A					US-PATENT-3,656,352
		US-PATENT-CLASS-325-38			US-PATENT-3,663,944			N72-25412*	c 14	NASA-CASE-MFS-15063
		US-PATENT-CLASS-325-51	N72-25255*	c 09	NASA-CASE-LAR-10620-1					US-PATENT-APPL-SN-51477
		US-PATENT-CLASS-325-55			US-PATENT-APPL-SN-125979					US-PATENT-CLASS-178-DIG.8
		US-PATENT-CLASS-325-58			US-PATENT-CLASS-310-10					US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-325-64			US-PATENT-CLASS-310-15					US-PATENT-CLASS-340-227R
		US-PATENT-CLASS-340-167			US-PATENT-3,663,843					US-PATENT-3,659,043
N72-25174*	c 07	US-PATENT-3,665,313	N72-25256*	c 09	NASA-CASE-XLA-02609			N72-25413*	c 14	NASA-CASE-GSC-10879-1
		NASA-CASE-NPO-11264			US-PATENT-APPL-SN-41347					US-PATENT-APPL-SN-889420
		US-PATENT-APPL-SN-36531			US-PATENT-CLASS-333-79					US-PATENT-CLASS-195-127
		US-PATENT-CLASS-343-762			US-PATENT-CLASS-339-143R					US-PATENT-3,666,631
		US-PATENT-CLASS-343-777			US-PATENT-CLASS-339-147R			N72-25414*	c 14	NASA-CASE-NPO-11311
		US-PATENT-CLASS-343-779			US-PATENT-3,663,929					US-PATENT-APPL-SN-57252
		US-PATENT-CLASS-343-786	N72-25257*	c 09	NASA-CASE-MSC-12395					US-PATENT-CLASS-178-7.92
		US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-134573					US-PATENT-CLASS-350-175FS
		US-PATENT-3,665,481			US-PATENT-CLASS-307-233					US-PATENT-3,663,753
N72-25206*	c 08	NASA-CASE-KSC-10397			US-PATENT-CLASS-324-186			N72-25428* #	c 14	NASA-CASE-HON-10756-1
		US-PATENT-APPL-SN-25488			US-PATENT-CLASS-324-78D					US-PATENT-APPL-SN-236052
		US-PATENT-CLASS-235-154			US-PATENT-CLASS-328-136			N72-25447*	c 15	NASA-CASE-LEW-10489-1
		US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-328-140					US-PATENT-APPL-SN-889682
		US-PATENT-3,648,275			US-PATENT-3,663,885					US-PATENT-CLASS-117-107
N72-25207*	c 08	NASA-CASE-NPO-11161	N72-25258*	c 09	NASA-CASE-LAR-10253-1					US-PATENT-CLASS-117-211
		US-PATENT-APPL-SN-889374			US-PATENT-APPL-SN-99175					US-PATENT-CLASS-117-217
		US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-307-88.3					US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-330-4.5					US-PATENT-CLASS-117-93.16D
		US-PATENT-3,648,256			US-PATENT-3,663,886					US-PATENT-CLASS-29-599
N72-25208*	c 08	NASA-CASE-NPO-11338	N72-25259*	c 09	NASA-CASE-GSC-10695-1					US-PATENT-3,649,356
		US-PATENT-APPL-SN-89212			US-PATENT-APPL-SN-889422			N72-25448*	c 15	NASA-CASE-LEW-10450-1
		US-PATENT-CLASS-178-50			US-PATENT-CLASS-117-200					US-PATENT-APPL-SN-880271
		US-PATENT-CLASS-179-15BC			US-PATENT-CLASS-136-89					US-PATENT-CLASS-75-0.58B
		US-PATENT-CLASS-179-15FD			US-PATENT-CLASS-29-198					US-PATENT-CLASS-75-206
		US-PATENT-CLASS-325-62			US-PATENT-3,664,874					US-PATENT-CLASS-75-213
		US-PATENT-CLASS-332-21	N72-25260*	c 09	NASA-CASE-NPO-11283					US-PATENT-3,649,242
		US-PATENT-3,659,053			US-PATENT-APPL-SN-118270			N72-25450*	c 15	NASA-CASE-NPO-11202
N72-25209*	c 08	NASA-CASE-NPO-11194			US-PATENT-CLASS-310-4					US-PATENT-APPL-SN-66004
		US-PATENT-APPL-SN-63532			US-PATENT-3,663,839					US-PATENT-CLASS-285-DIG.21
		US-PATENT-CLASS-343-12R	N72-25261*	c 09	NASA-CASE-ERC-10224					US-PATENT-CLASS-285-3
		US-PATENT-CLASS-343-14			US-PATENT-APPL-SN-868775					US-PATENT-CLASS-285-316
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-29-492					US-PATENT-CLASS-285-33
		US-PATENT-3,659,292			US-PATENT-CLASS-29-497					US-PATENT-CLASS-339-45M
N72-25210*	c 08	NASA-CASE-NPO-10636			US-PATENT-CLASS-29-498					US-PATENT-CLASS-339-91B
		US-PATENT-APPL-SN-77221			US-PATENT-CLASS-29-502					US-PATENT-3,656,781
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-29-589			N72-25451*	c 15	NASA-CASE-NPO-10606
		US-PATENT-CLASS-340-146.1AL			US-PATENT-CLASS-29-628					US-PATENT-APPL-SN-8636
		US-PATENT-3,662,337			US-PATENT-3,665,589					US-PATENT-CLASS-251-360
N72-25247*	c 09	NASA-CASE-LAR-10163.1	N72-25262*	c 09	NASA-CASE-NPO-11078					US-PATENT-3,658,295
		US-PATENT-APPL-SN-73310			US-PATENT-APPL-SN-82280			N72-25452*	c 15	NASA-CASE-LEW-10965-1
		US-PATENT-CLASS-343-708			US-PATENT-CLASS-307-103					US-PATENT-APPL-SN-876588
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-307-83					US-PATENT-CLASS-117-124C
		US-PATENT-CLASS-343-873			US-PATENT-CLASS-323-48					US-PATENT-CLASS-117-152
		US-PATENT-3,653,052			US-PATENT-CLASS-323-82					US-PATENT-CLASS-117-16R
N72-25248*	c 09	NASA-CASE-NPO-11342			US-PATENT-3,663,828					US-PATENT-CLASS-117-37
		US-PATENT-APPL-SN-89209	N72-25284*	c 11	NASA-CASE-LAR-10507-1					US-PATENT-CLASS-117-47R
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-874177					US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-324A			US-PATENT-CLASS-195-127					US-PATENT-CLASS-117-93.3
		US-PATENT-3,648,250			US-PATENT-3,649,462					US-PATENT-CLASS-204-157.18AG
N72-25249*	c 09	NASA-CASE-GSC-10656-1	N72-25287*	c 11	NASA-CASE-LAR-10546-1					US-PATENT-CLASS-204-49
		US-PATENT-APPL-SN-59969			US-PATENT-APPL-SN-32664					US-PATENT-CLASS-250-65F
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-287-54A					US-PATENT-CLASS-96-36.2
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-52-648					US-PATENT-3,658,569
		US-PATENT-CLASS-323-17			US-PATENT-CLASS-52-655			N72-25453*	c 15	NASA-CASE-KSC-10513
		US-PATENT-CLASS-323-22T			US-PATENT-3,665,670					US-PATENT-APPL-SN-61535
		US-PATENT-3,621,372	N72-25288*	c 11	NASA-CASE-MFS-20434					US-PATENT-CLASS-187-1
N72-25250*	c 09	NASA-CASE-KSC-10565			US-PATENT-APPL-SN-55534					US-PATENT-CLASS-187-20
		US-PATENT-APPL-SN-98517			US-PATENT-CLASS-73-140					US-PATENT-CLASS-187-95
		US-PATENT-CLASS-315-135			US-PATENT-CLASS-73-161					US-PATENT-CLASS-254-190
		US-PATENT-CLASS-315-349			US-PATENT-3,665,758					US-PATENT-3,666,051
		US-PATENT-CLASS-330-2	N72-25292*	c 12	NASA-CASE-NPO-11556			N72-25454*	c 15	NASA-CASE-MSC-12233-1
		US-PATENT-CLASS-330-59			US-PATENT-APPL-SN-82648					US-PATENT-APPL-SN-73422
		US-PATENT-CLASS-340-332			US-PATENT-CLASS-210-188					US-PATENT-CLASS-52-169
		US-PATENT-3,659,148			US-PATENT-CLASS-310-11					US-PATENT-CLASS-52-173
N72-25251*	c 09	NASA-CASE-ERC-10048			US-PATENT-3,648,083					US-PATENT-CLASS-52-594
		US-PATENT-APPL-SN-10329	N72-25323*	c 13	NASA-CASE-NPO-11373					US-PATENT-3,665,669
		US-PATENT-CLASS-307-261			US-PATENT-APPL-SN-81095			N72-25455*	c 15	NASA-CASE-NPO-11095
		US-PATENT-CLASS-321-18			US-PATENT-CLASS-73-421.5R					US-PATENT-APPL-SN-19585
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-422GC					US-PATENT-CLASS-239-424
		US-PATENT-3,659,184			US-PATENT-CLASS-73-422TC					US-PATENT-CLASS-60-258
N72-25252*	c 09	NASA-CASE-ERC-10268			US-PATENT-3,662,604					US-PATENT-CLASS-60-39.74A
		US-PATENT-APPL-SN-39342	N72-25409*	c 14	NASA-CASE-ERC-10174					US-PATENT-3,662,547
		US-PATENT-CLASS-321-11			US-PATENT-APPL-SN-39344			N72-25456*	c 15	NASA-CASE-NPO-11222

				US-PATENT-APPL-SN-59893				US-PATENT-CLASS-136-202					US-PATENT-APPL-SN-59968
				US-PATENT-CLASS-310-68				US-PATENT-3,666,566					US-PATENT-CLASS-248-188.4
				US-PATENT-CLASS-310-80				NASA-CASE-NPO-10244					US-PATENT-3,669,393
				US-PATENT-CLASS-310-83		N72-26371*	c 15	US-PATENT-APPL-SN-43327		N72-27485*	c 15		NASA-CASE-XLA-09843
				US-PATENT-3,660,704				US-PATENT-CLASS-308-2A					US-PATENT-APPL-SN-60876
N72-25457*	c 15			NASA-CASE-ERC-10325				US-PATENT-CLASS-73-136R					US-PATENT-CLASS-83-522
				US-PATENT-APPL-SN-43884				US-PATENT-3,664,185					US-PATENT-CLASS-83-562
				US-PATENT-CLASS-324-158D		N72-27053*	c 03	NASA-CASE-GSC-10344-1					US-PATENT-CLASS-83-563
				US-PATENT-CLASS-324-158T				US-PATENT-APPL-SN-785078					US-PATENT-CLASS-83-588
				US-PATENT-3,665,307				US-PATENT-CLASS-136-89					US-PATENT-CLASS-83-8
N72-25485*	c 16			NASA-CASE-ERC-10283				US-PATENT-3,672,999					US-PATENT-3,668,956
				US-PATENT-APPL-SN-39185		N72-27102*	c 05	NASA-CASE-LAR-10365-1		N72-27728*	c 23		NASA-CASE-ARC-10160-1
				US-PATENT-CLASS-331-94.5				US-PATENT-APPL-SN-3151					US-PATENT-APPL-SN-867842
				US-PATENT-CLASS-332-7.51				US-PATENT-CLASS-210-103					US-PATENT-CLASS-178-DIG.20
				US-PATENT-3,659,225				US-PATENT-CLASS-210-104					US-PATENT-CLASS-178-6.5
N72-25539*	c 18			NASA-CASE-LEW-10424-2.2				US-PATENT-CLASS-210-110					US-PATENT-CLASS-350-138
				US-PATENT-APPL-SN-15222				US-PATENT-CLASS-210-137					US-PATENT-3,670,097
				US-PATENT-CLASS-75-DIG.1				US-PATENT-3,670,890		N72-27784*	c 26		NASA-CASE-LAR-10836-1
				US-PATENT-CLASS-75-208		N72-27103*	c 05	NASA-CASE-MSC-13648					US-PATENT-APPL-SN-138227
				US-PATENT-CLASS-75-211				US-PATENT-APPL-SN-87222					US-PATENT-CLASS-350-161
				US-PATENT-CLASS-75-226				US-PATENT-CLASS-128-DIG.4					US-PATENT-3,671,105
				US-PATENT-3,653,882				US-PATENT-CLASS-128-2.1E		N72-27959*	c 33		NASA-CASE-LAR-10800-1
N72-25540*	c 18			NASA-CASE-ERC-10364				US-PATENT-CLASS-128-417					US-PATENT-APPL-SN-154094
				US-PATENT-APPL-SN-55537				US-PATENT-3,669,110					US-PATENT-CLASS-73-35
				US-PATENT-CLASS-161-127		N72-27144*	c 06	NASA-CASE-NPO-10768-2					US-PATENT-3,670,559
				US-PATENT-CLASS-161-68				US-PATENT-APPL-SN-770398		N72-28025*	c 03		NASA-CASE-NPO-10633
				US-PATENT-CLASS-161-7				US-PATENT-APPL-SN-99524					US-PATENT-APPL-SN-885521
				US-PATENT-CLASS-52-DIG.10				US-PATENT-CLASS-260-535H					US-PATENT-CLASS-165-20
				US-PATENT-CLASS-52-80				US-PATENT-CLASS-260-77.5AP					US-PATENT-CLASS-165-3
				US-PATENT-3,663,347				US-PATENT-3,671,497					US-PATENT-CLASS-62-93
N72-25541*	c 18			NASA-CASE-ERC-10363		N72-27151* #	c 06	NASA-CASE-NPO-10767-2					US-PATENT-3,675,712
				US-PATENT-APPL-SN-57253				US-PATENT-APPL-SN-241061		N72-28225*	c 09		NASA-CASE-MFS-20757
				US-PATENT-CLASS-161-127				NASA-CASE-LEW-10330-1					US-PATENT-APPL-SN-136006
				US-PATENT-CLASS-161-68		N72-27226*	c 09	US-PATENT-APPL-SN-110402					US-PATENT-CLASS-339-176MF
				US-PATENT-CLASS-161-7				US-PATENT-CLASS-336-198					US-PATENT-CLASS-339-218M
				US-PATENT-CLASS-52-DIG.10				US-PATENT-CLASS-336-220					US-PATENT-CLASS-339-75MP
				US-PATENT-CLASS-52-80				US-PATENT-CLASS-336-60					US-PATENT-CLASS-339-94M
				US-PATENT-3,663,346				US-PATENT-3,648,209					US-PATENT-3,670,290
N72-25595*	c 21			NASA-CASE-MSC-13397-1		N72-27227*	c 09	NASA-CASE-KSC-10644		N72-28240*	c 10		NASA-CASE-ARC-10265-1
				US-PATENT-APPL-SN-59966				US-PATENT-APPL-SN-114849					US-PATENT-APPL-SN-864709
				US-PATENT-CLASS-244-15A				US-PATENT-CLASS-307-118					US-PATENT-CLASS-324-41
				US-PATENT-CLASS-244-23A				US-PATENT-CLASS-307-92					US-PATENT-CLASS-340-258
				US-PATENT-3,662,973				US-PATENT-CLASS-340-240					US-PATENT-3,676,772
N72-25619*	c 23			NASA-CASE-NPO-10634				US-PATENT-3,673,424		N72-28241*	c 10		NASA-CASE-GSC-10786-1
				US-PATENT-APPL-SN-112999		N72-27228*	c 09	NASA-CASE-NPO-10542					US-PATENT-APPL-SN-773072
				US-PATENT-CLASS-62-475				US-PATENT-APPL-SN-767741					US-PATENT-CLASS-330-29
				US-PATENT-CLASS-62-6				US-PATENT-CLASS-310-4					US-PATENT-3,533,006
				US-PATENT-CLASS-62-80				US-PATENT-3,673,440		N72-28436*	c 14		NASA-CASE-XLA-06683
				US-PATENT-CLASS-62-85				NASA-CASE-ERC-10015-2					US-PATENT-APPL-SN-10827
				US-PATENT-3,656,313		N72-27246*	c 10	US-PATENT-APPL-SN-763744					US-PATENT-CLASS-33-15A
N72-25679*	c 26			NASA-CASE-XER-07895				US-PATENT-APPL-SN-97343					US-PATENT-CLASS-33-75R
				US-PATENT-APPL-SN-651627				US-PATENT-CLASS-313-309					US-PATENT-3,675,332
				US-PATENT-CLASS-317-234J				US-PATENT-CLASS-313-336		N72-28437*	c 14		NASA-CASE-ERC-10081
				US-PATENT-CLASS-317-235A				US-PATENT-CLASS-313-351					US-PATENT-APPL-SN-877990
				US-PATENT-CLASS-317-235AJ				US-PATENT-CLASS-315-36					US-PATENT-CLASS-325-363
				US-PATENT-CLASS-317-235R				US-PATENT-3,671,798					US-PATENT-CLASS-343-100ME
				US-PATENT-CLASS-331-107G		N72-27262*	c 11	NASA-CASE-MFS-20620					US-PATENT-CLASS-343-112D
				US-PATENT-3,667,010				US-PATENT-APPL-SN-154935					US-PATENT-CLASS-73-355
N72-25680*	c 26			NASA-CASE-ERC-10275				US-PATENT-CLASS-73-117.1					US-PATENT-3,665,467
				US-PATENT-APPL-SN-47061				US-PATENT-CLASS-73-432SD		N72-28438*	c 14		NASA-CASE-XLA-04980-2
				US-PATENT-CLASS-324-92				US-PATENT-3,670,564					US-PATENT-APPL-SN-577548
				US-PATENT-CLASS-324-96		N72-27408*	c 14	NASA-CASE-NPO-11147					US-PATENT-APPL-SN-763040
				US-PATENT-CLASS-340-324R				US-PATENT-APPL-SN-63195					US-PATENT-CLASS-148-187
				US-PATENT-CLASS-350-150				US-PATENT-CLASS-324-79R					US-PATENT-3,549,435
				US-PATENT-CLASS-350-160R				US-PATENT-CLASS-328-189		N72-28495*	c 15		NASA-CASE-MFS-14405
				US-PATENT-3,667,039				US-PATENT-CLASS-331-44					US-PATENT-APPL-SN-73283
N72-25699*	c 27			NASA-CASE-NPO-12000				US-PATENT-3,670,241					US-PATENT-CLASS-214-1CM
				US-PATENT-APPL-SN-74861				NASA-CASE-NPO-11201					US-PATENT-CLASS-74-469
				US-PATENT-CLASS-149-19		N72-27409*	c 14	US-PATENT-APPL-SN-77220					US-PATENT-3,631,737
				US-PATENT-CLASS-149-20				US-PATENT-CLASS-250-203R					NASA-CASE-MFS-20433
				US-PATENT-CLASS-149-36				US-PATENT-CLASS-250-225		N72-28496*	c 15		US-PATENT-APPL-SN-114847
				US-PATENT-CLASS-149-92				US-PATENT-CLASS-350-147					US-PATENT-CLASS-52-1
				US-PATENT-3,658,608				US-PATENT-CLASS-356-141					US-PATENT-CLASS-52-573
N72-25842*	c 31			NASA-CASE-MSC-12372-1				US-PATENT-CLASS-356-152					US-PATENT-3,675,376
				US-PATENT-APPL-SN-64391				US-PATENT-3,670,168		N72-28521*	c 16		NASA-CASE-NPO-11437
				US-PATENT-CLASS-95-12.5		N72-27410*	c 14	NASA-CASE-XLE-05230					US-PATENT-APPL-SN-63144
				US-PATENT-3,662,661				US-PATENT-APPL-SN-877717					US-PATENT-CLASS-330-4
N72-25877*	c 32			NASA-CASE-LAR-10270-1				US-PATENT-CLASS-136-233					US-PATENT-CLASS-331-94
				US-PATENT-APPL-SN-60881				US-PATENT-3,671,329					US-PATENT-3,676,787
				US-PATENT-CLASS-73-100				NASA-CASE-MSC-12293-1		N72-28535*	c 17		NASA-CASE-XLE-06461-2
				US-PATENT-CLASS-73-15.6		N72-27411*	c 14	US-PATENT-APPL-SN-59956					US-PATENT-APPL-SN-156778
				US-PATENT-3,665,751				US-PATENT-CLASS-250-205					US-PATENT-APPL-SN-853855
N72-25911*	c 33			NASA-CASE-LEW-10359				US-PATENT-CLASS-315-151					US-PATENT-CLASS-266-24
				US-PATENT-APPL-SN-47063				US-PATENT-CLASS-315-156					US-PATENT-3,675,910
				US-PATENT-CLASS-102-105				US-PATENT-CLASS-315-158		N72-28536*	c 17		NASA-CASE-XLE-03940-2
				US-PATENT-CLASS-60-200A				US-PATENT-CLASS-315-297					US-PATENT-APPL-SN-539255
				US-PATENT-CLASS-60-265				US-PATENT-CLASS-315-307					US-PATENT-APPL-SN-793657
				US-PATENT-CLASS-60-267				US-PATENT-CLASS-315-310					US-PATENT-CLASS-29-182.5
				US-PATENT-CLASS-62-467				US-PATENT-CLASS-315-311					US-PATENT-3,676,084
				US-PATENT-3,656,317				US-PATENT-3,670,202		N72-28761*	c 26		NASA-CASE-NPO-11775
N72-25913*	c 33			NASA-CASE-XMS-09690		N72-27412*	c 14	NASA-CASE-MFS-20523					US-PATENT-APPL-SN-162230
				US-PATENT-APPL-SN-853641				US-PATENT-APPL-SN-77786					US-PATENT-CLASS-29-570
				US-PATENT-CLASS-73-15R				US-PATENT-CLASS-73-103					US-PATENT-CLASS-317-230
				US-PATENT-3,665,750				US-PATENT-CLASS-73-71.6					US-PATENT-CLASS-317-261
N72-26031*	c 03			NASA-CASE-NPO-10753				US-PATENT-3,670,563					US-PATENT-3,676,754
				US-PATENT-APPL-SN-844355		N72-27484*	c 15	NASA-CASE-NPO-10721		N72-28762*	c 26		NASA-CASE-LAR-10294-1

		US-PATENT-APPL-SN-796685				US-PATENT-3,690,291			US-PATENT-CLASS-325-480
		US-PATENT-CLASS-106-39	N72-32688*	c 25		NASA-CASE-MFS-20589			US-PATENT-3,700,812
		US-PATENT-CLASS-106-46				US-PATENT-APPL-SN-103077	N73-12264*	c 11	NASA-CASE-LAR-10348-1
		US-PATENT-CLASS-117-212				US-PATENT-CLASS-313-231			US-PATENT-APPL-SN-70032
		US-PATENT-CLASS-117-217				US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-29-25.42				US-PATENT-3,693,002			US-PATENT-3,695,101
N72-29172*	c 09	US-PATENT-3,649,353	N72-33072*	c 04		NASA-CASE-ERC-10338	N73-12265*	c 11	NASA-CASE-NPO-10890
		NASA-CASE-LAR-10511-1				US-PATENT-APPL-SN-50339			US-PATENT-APPL-SN-99903
		US-PATENT-APPL-SN-41345				US-PATENT-CLASS-23-109			US-PATENT-CLASS-137-559
		US-PATENT-CLASS-333-24R	N72-33096*	c 05		US-PATENT-3,679,360			US-PATENT-CLASS-219-203
		US-PATENT-CLASS-333-98P				NASA-CASE-MSC-13540-1			US-PATENT-CLASS-219-522
		US-PATENT-CLASS-333-98R				US-PATENT-APPL-SN-68023			US-PATENT-CLASS-52-171
		US-PATENT-3,676,809				US-PATENT-CLASS-99-80PS			US-PATENT-3,696,833
N72-29464*	c 14	NASA-CASE-ARC-10017-1	N72-33146*	c 07		US-PATENT-3,692,533	N73-12444*	c 14	NASA-CASE-GSC-10903-1
		US-PATENT-APPL-SN-55536				NASA-CASE-MSC-12259-2			US-PATENT-APPL-SN-114846
		US-PATENT-CLASS-250-41.9D				US-PATENT-APPL-SN-61895			US-PATENT-CLASS-250-41.9C
		US-PATENT-CLASS-250-71.5R				US-PATENT-APPL-SN-853763			US-PATENT-CLASS-250-41.9S
		US-PATENT-CLASS-313-356				US-PATENT-CLASS-325-373			US-PATENT-CLASS-73-421.5
		US-PATENT-3,676,674				US-PATENT-3,694,753			US-PATENT-3,700,893
N72-29488*	c 15	NASA-CASE-XLE-10326-2	N72-33172*	c 08		NASA-CASE-NPO-11630	N73-12445*	c 14	NASA-CASE-LAR-10728-1
		US-PATENT-APPL-SN-54540				US-PATENT-APPL-SN-143078			US-PATENT-APPL-SN-112998
		US-PATENT-APPL-SN-723465				US-PATENT-CLASS-179-15.55R			US-PATENT-CLASS-250-83.3H
		US-PATENT-CLASS-277-25				US-PATENT-3,694,581			US-PATENT-CLASS-250-83.3R
		US-PATENT-CLASS-277-27	N72-33204*	c 09		NASA-CASE-NPO-11129			US-PATENT-CLASS-250-83R
		US-PATENT-CLASS-277-74				US-PATENT-APPL-SN-883523			US-PATENT-3,700,897
		US-PATENT-3,675,935				US-PATENT-CLASS-307-262	N73-12446*	c 14	NASA-CASE-NPO-11239
N72-31140*	c 06	NASA-CASE-MSC-13335-1				US-PATENT-CLASS-307-295			US-PATENT-APPL-SN-89211
		US-PATENT-APPL-SN-55806				US-PATENT-CLASS-328-155			US-PATENT-CLASS-356-106
		US-PATENT-CLASS-55-16				US-PATENT-CLASS-328-24			US-PATENT-CLASS-356-114
		US-PATENT-CLASS-55-55				US-PATENT-3,621,406			US-PATENT-3,700,334
		US-PATENT-3,678,654	N72-33205*	c 09		NASA-CASE-GSC-10835-1	N73-12447*	c 14	NASA-CASE-NPO-11493
N72-31141*	c 06	NASA-CASE-ARC-10308-1				US-PATENT-APPL-SN-116778			US-PATENT-APPL-SN-151413
		US-PATENT-APPL-SN-134568				US-PATENT-CLASS-317-101A			US-PATENT-CLASS-136-224
		US-PATENT-CLASS-250-43.5R				US-PATENT-CLASS-317-235			US-PATENT-3,700,503
		US-PATENT-CLASS-356-51				US-PATENT-CLASS-317-235A	N73-12486*	c 15	NASA-CASE-KSC-10615
		US-PATENT-3,679,899				US-PATENT-CLASS-317-235AJ			US-PATENT-APPL-SN-103078
N72-31226*	c 08	NASA-CASE-NPO-11016				US-PATENT-3,694,700			US-PATENT-CLASS-244-1SB
		US-PATENT-APPL-SN-889584	N72-33230*	c 10		NASA-CASE-GSC-11340-1			US-PATENT-CLASS-244-135
		US-PATENT-CLASS-235-150.1				US-PATENT-APPL-SN-107379			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-235-151.1				US-PATENT-CLASS-330-12			US-PATENT-CLASS-62-7
		US-PATENT-CLASS-235-92MT				US-PATENT-CLASS-331-115			US-PATENT-3,697,021
		US-PATENT-CLASS-323-19				US-PATENT-CLASS-331-116R	N73-12487*	c 15	NASA-CASE-FRC-10019
		US-PATENT-CLASS-340-347AD				US-PATENT-CLASS-333-80T			US-PATENT-APPL-SN-880398
		US-PATENT-3,681,581				US-PATENT-3,693,105			US-PATENT-CLASS-204-192
N72-31235*	c 09	NASA-CASE-ERC-10214	N72-33377*	c 14		NASA-CASE-MFS-20760			US-PATENT-3,700,575
		US-PATENT-APPL-SN-863914				US-PATENT-APPL-SN-99174	N73-12488*	c 15	NASA-CASE-ARC-10345-1
		US-PATENT-CLASS-343-770				US-PATENT-CLASS-73-141AB			US-PATENT-APPL-SN-193671
		US-PATENT-CLASS-343-771				US-PATENT-CLASS-73-85			US-PATENT-CLASS-287-85R
		US-PATENT-CLASS-343-786				US-PATENT-3,693,418			US-PATENT-CLASS-308-2A
		US-PATENT-CLASS-343-797	N72-33476*	c 15		NASA-CASE-XGS-07805			US-PATENT-CLASS-74-5F
		US-PATENT-CLASS-343-853				US-PATENT-APPL-SN-104884			US-PATENT-3,700,291
		US-PATENT-3,680,142				US-PATENT-CLASS-308-10	N73-12489*	c 15	NASA-CASE-MSC-12357
N72-31273*	c 10	NASA-CASE-KSC-10647-1				US-PATENT-3,694,041			US-PATENT-APPL-SN-662763
		US-PATENT-APPL-SN-774691	N72-33477*	c 15		NASA-CASE-NPO-11340			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-178-7.5E				US-PATENT-APPL-SN-147997			US-PATENT-CLASS-264-28
		US-PATENT-CLASS-315-22R				US-PATENT-CLASS-137-13			US-PATENT-CLASS-264-36
		US-PATENT-CLASS-315-30R				US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-264-40
		US-PATENT-CLASS-330-27R				US-PATENT-CLASS-60-1			US-PATENT-3,697,630
		US-PATENT-3,678,191				US-PATENT-CLASS-60-36	N73-12492* #	c 15	NASA-CASE-XLA-08914
N72-31446*	c 14	NASA-CASE-ERC-10087-2				US-PATENT-3,693,346			US-PATENT-APPL-SN-810576
		US-PATENT-APPL-SN-738315	N72-33681*	c 24		NASA-CASE-LEW-10518-1	N73-12495* #	c 15	NASA-CASE-NPO-13086-1
		US-PATENT-APPL-SN-91642				US-PATENT-APPL-SN-863280			US-PATENT-APPL-SN-292477
		US-PATENT-CLASS-29-588				US-PATENT-CLASS-176-11	N73-12547*	c 17	NASA-CASE-LAR-10539-1
		US-PATENT-CLASS-317-234D				US-PATENT-3,694,313			US-PATENT-APPL-SN-136085
		US-PATENT-CLASS-317-234G	N72-33696*	c 25		NASA-CASE-GSC-11291-1			US-PATENT-CLASS-23-230R
		US-PATENT-CLASS-317-235M				US-PATENT-APPL-SN-102412			US-PATENT-3,701,631
		US-PATENT-CLASS-317-235R				US-PATENT-CLASS-250-83.6R	N73-12604*	c 18	NASA-CASE-MFS-20408
		US-PATENT-3,686,542				US-PATENT-3,694,655			US-PATENT-APPL-SN-71048
N72-31483*	c 15	NASA-CASE-LAR-10061-1	N73-12175*	c 08		NASA-CASE-NPO-11406			US-PATENT-CLASS-161-93
		US-PATENT-APPL-SN-104047				US-PATENT-APPL-SN-95183			US-PATENT-3,700,538
		US-PATENT-CLASS-251-331				US-PATENT-CLASS-235-152	N73-12884*	c 30	NASA-CASE-MSC-12391
		US-PATENT-CLASS-251-86				US-PATENT-CLASS-331-78			US-PATENT-APPL-SN-106465
		US-PATENT-3,680,830				US-PATENT-CLASS-340-146.1A			US-PATENT-CLASS-244-155
N72-31637*	c 21	NASA-CASE-GSC-10945-1				US-PATENT-3,700,869			US-PATENT-3,700,193
		US-PATENT-APPL-SN-75431	N73-12176*	c 08		NASA-CASE-KSC-10595	N73-13008*	c 02	NASA-CASE-GSC-11077-1
		US-PATENT-CLASS-60-23				US-PATENT-APPL-SN-98772			US-PATENT-APPL-SN-127618
		US-PATENT-CLASS-60-26				US-PATENT-CLASS-235-155			US-PATENT-CLASS-244-32
		US-PATENT-3,678,685				US-PATENT-CLASS-340-347DD			US-PATENT-3,698,667
N72-32169*	c 07	NASA-CASE-NPO-11361				US-PATENT-3,697,733	N73-13114*	c 05	NASA-CASE-MSC-13604-1
		US-PATENT-APPL-SN-112988	N73-12177*	c 08		NASA-CASE-NPO-11371			US-PATENT-APPL-SN-78717
		US-PATENT-CLASS-343-781				US-PATENT-APPL-SN-117575			US-PATENT-CLASS-128-2N
		US-PATENT-CLASS-343-837				US-PATENT-CLASS-340-146.1AQ			US-PATENT-CLASS-273-1E
		US-PATENT-CLASS-343-840				US-PATENT-CLASS-340-146.1AV			US-PATENT-CLASS-35-22R
		US-PATENT-CLASS-343-915				US-PATENT-3,697,950			US-PATENT-3,698,385
		US-PATENT-3,680,144	N73-12211*	c 09		NASA-CASE-ERC-10412-1	N73-13128*	c 06	NASA-CASE-GSC-11214-1
N72-32452*	c 14	NASA-CASE-MFS-15162				US-PATENT-APPL-SN-72024			US-PATENT-APPL-SN-115134
		US-PATENT-APPL-SN-100639				US-PATENT-CLASS-343-11R			US-PATENT-CLASS-117-35R
		US-PATENT-CLASS-350-79				US-PATENT-CLASS-343-11VB			US-PATENT-3,702,775
		US-PATENT-CLASS-356-241				US-PATENT-CLASS-343-5DP	N73-13129*	c 06	NASA-CASE-XNP-08124-2
		US-PATENT-3,694,094				US-PATENT-3,696,418			US-PATENT-APPL-SN-97829
N72-32487*	c 15	NASA-CASE-LAR-10541-1	N73-12214* #	c 09		NASA-CASE-NPO-13091-1			US-PATENT-CLASS-75-66
		US-PATENT-APPL-SN-138229				US-PATENT-APPL-SN-290022			US-PATENT-3,702,762
		US-PATENT-CLASS-118-49.1	N73-12244*	c 10		NASA-CASE-NPO-11631	N73-13149*	c 07	NASA-CASE-NPO-11302-1
		US-PATENT-CLASS-204-298				US-PATENT-APPL-SN-123253			US-PATENT-APPL-SN-70967
		US-PATENT-CLASS-219-121P				US-PATENT-CLASS-179-1P			US-PATENT-CLASS-178-69.5
		US-PATENT-CLASS-219-273				US-PATENT-CLASS-325-473			US-PATENT-CLASS-235-150.53

			US-PATENT-CLASS-235-181				US-PATENT-CLASS-60-37				US-PATENT-CLASS-174-52S
			US-PATENT-CLASS-325-325				US-PATENT-3,702,532				US-PATENT-CLASS-29-589
			US-PATENT-CLASS-340-146.1				NASA-CASE-HON-10654-1				US-PATENT-CLASS-29-591
N73-13187*	c 08		US-PATENT-3,701,894		N73-13489*	c 16	US-PATENT-APPL-SN-182978				US-PATENT-CLASS-317-234A
			NASA-CASE-GSC-10975-1				US-PATENT-CLASS-324-.5R				US-PATENT-CLASS-317-234G
			US-PATENT-APPL-SN-100996				US-PATENT-CLASS-331-94				US-PATENT-3,705,255
			US-PATENT-CLASS-340-172.5				US-PATENT-3,702,972		N73-14584*	c 18	NASA-CASE-LAR-10894-1
			US-PATENT-3,702,463		N73-13562*	c 18	NASA-CASE-ARC-10196-1				US-PATENT-APPL-SN-189375
N73-13208*	c 09		NASA-CASE-LEW-11192-1				US-PATENT-APPL-SN-115082				US-PATENT-CLASS-106-39R
			US-PATENT-APPL-SN-198285				US-PATENT-CLASS-260-2.5F				US-PATENT-CLASS-106-55
			US-PATENT-CLASS-315-3.5				US-PATENT-3,702,841				US-PATENT-CLASS-106-58
			US-PATENT-CLASS-315-5.38		N73-13643*	c 21	NASA-CASE-HON-10703				US-PATENT-CLASS-106-63
			US-PATENT-3,702,951				US-PATENT-APPL-SN-156724				US-PATENT-CLASS-264-DIG.36
N73-13209*	c 09		NASA-CASE-XLA-05099				US-PATENT-CLASS-340-27NA				US-PATENT-CLASS-264-65
			US-PATENT-APPL-SN-98798				US-PATENT-CLASS-340-33				US-PATENT-3,706,583
			US-PATENT-CLASS-235-152				US-PATENT-CLASS-340-97		N73-14692*	c 21	NASA-CASE-ERC-10392
			US-PATENT-CLASS-307-207				US-PATENT-CLASS-343-112CA				US-PATENT-APPL-SN-36534
			US-PATENT-CLASS-307-215				US-PATENT-3,699,511				US-PATENT-CLASS-340-27AT
N73-13235*	c 10		US-PATENT-3,700,868		N73-13644*	c 21	NASA-CASE-NPO-11481				US-PATENT-3,706,970
			NASA-CASE-KSC-10003				US-PATENT-APPL-SN-134571		N73-14853*	c 31	NASA-CASE-GSC-10590-1
			US-PATENT-APPL-SN-60883				US-PATENT-CLASS-179-100.2A				US-PATENT-APPL-SN-130353
			US-PATENT-CLASS-178-DIG.6				US-PATENT-CLASS-340-174.1R				US-PATENT-CLASS-102-49.5
			US-PATENT-CLASS-178-6				US-PATENT-CLASS-346-138				US-PATENT-3,706,281
			US-PATENT-CLASS-307-242				US-PATENT-CLASS-346-74MD		N73-14854*	c 31	NASA-CASE-MS-12433
			US-PATENT-CLASS-307-259				US-PATENT-CLASS-74-5.22				US-PATENT-APPL-SN-103551
			US-PATENT-CLASS-328-104				US-PATENT-3,697,968				US-PATENT-CLASS-244-155
			US-PATENT-CLASS-328-154		N73-13660*	c 23	NASA-CASE-MFS-20809				US-PATENT-3,702,688
			US-PATENT-3,702,898				US-PATENT-APPL-SN-173185		N73-14855*	c 31	NASA-CASE-NPO-10680
N73-13257*	c 11		NASA-CASE-LAR-10574-1				US-PATENT-CLASS-315-169R				US-PATENT-APPL-SN-104048
			US-PATENT-APPL-SN-66206				US-PATENT-CLASS-315-169TV				US-PATENT-CLASS-74-2
			US-PATENT-CLASS-244-1SS				US-PATENT-CLASS-317-101A				US-PATENT-3,706,230
			US-PATENT-3,698,659		N73-13661*	c 23	US-PATENT-3,700,961		N73-15235*	c 09	NASA-CASE-NPO-12106
N73-13415*	c 14		NASA-CASE-LAR-10855-1				NASA-CASE-MS-12404-1				US-PATENT-APPL-SN-175881
			US-PATENT-APPL-SN-166541				US-PATENT-APPL-SN-142662				US-PATENT-CLASS-317-234V
			US-PATENT-CLASS-73-147				US-PATENT-CLASS-356-106S				US-PATENT-CLASS-317-235AG
			US-PATENT-CLASS-73-182				US-PATENT-3,702,735				US-PATENT-CLASS-317-235K
			US-PATENT-CLASS-73-189		N73-13662*	c 23	NASA-CASE-MFS-20243				US-PATENT-CLASS-331-107G
			US-PATENT-CLASS-73-212				US-PATENT-APPL-SN-59894				US-PATENT-CLASS-331-177R
			US-PATENT-3,699,811				US-PATENT-CLASS-250-51.5				US-PATENT-CLASS-331-90
N73-13416*	c 14		NASA-CASE-GSC-11302-1				US-PATENT-CLASS-250-52				US-PATENT-3,694,771
			US-PATENT-APPL-SN-168650				US-PATENT-3,702,933		N73-16106*	c 06	NASA-CASE-LAR-10668-1
			US-PATENT-CLASS-73-71.6		N73-13773*	c 28	NASA-CASE-LEW-10374-1				US-PATENT-APPL-SN-172459
			US-PATENT-3,699,807				US-PATENT-APPL-SN-107380				US-PATENT-CLASS-23-232E
N73-13417*	c 14		NASA-CASE-XLE-05230-2				US-PATENT-CLASS-137-81.5				US-PATENT-CLASS-23-232R
			US-PATENT-APPL-SN-147099				US-PATENT-CLASS-60-211				US-PATENT-CLASS-23-254E
			US-PATENT-APPL-SN-877717				US-PATENT-CLASS-60-240				US-PATENT-CLASS-23-254R
			US-PATENT-CLASS-136-233				US-PATENT-CLASS-60-243				US-PATENT-CLASS-250-71R
			US-PATENT-CLASS-29-573				US-PATENT-3,702,536				US-PATENT-CLASS-250-83.3UV
			US-PATENT-CLASS-29-624		N73-13898*	c 31	NASA-CASE-LAR-10549-1				US-PATENT-3,709,663
			US-PATENT-3,699,645				US-PATENT-APPL-SN-108824		N73-16121*	c 07	NASA-CASE-NPO-11572
N73-13418*	c 14		NASA-CASE-MFS-14216				US-PATENT-CLASS-244-139				US-PATENT-APPL-SN-125234
			US-PATENT-APPL-SN-50208				US-PATENT-CLASS-60-291				US-PATENT-CLASS-179-15AN
			US-PATENT-CLASS-137-487.5				US-PATENT-3,700,192				US-PATENT-CLASS-179-15BC
			US-PATENT-CLASS-137-81		N73-13921*	c 32	NASA-CASE-MS-12233-2				US-PATENT-CLASS-325-60
			US-PATENT-CLASS-92-49				US-PATENT-APPL-SN-107298				US-PATENT-CLASS-343-200
			US-PATENT-3,698,412				US-PATENT-CLASS-229-DIG.11				US-PATENT-3,710,257
N73-13420*	c 14		NASA-CASE-NPO-11418-1				US-PATENT-CLASS-52-284		N73-16205*	c 10	NASA-CASE-NPO-11282
			US-PATENT-APPL-SN-193947				US-PATENT-CLASS-52-594				US-PATENT-APPL-SN-101354
			US-PATENT-CLASS-333-81B				US-PATENT-3,702,520				US-PATENT-CLASS-325-346
			US-PATENT-CLASS-333-98R		N73-14130*	c 07	NASA-CASE-NPO-11661				US-PATENT-CLASS-325-419
			US-PATENT-3,702,979				US-PATENT-APPL-SN-200682				US-PATENT-3,710,261
N73-13435* #	c 14		NASA-CASE-GSC-11533-1				US-PATENT-CLASS-343-782		N73-16206*	c 10	NASA-CASE-ERC-10285
			US-PATENT-APPL-SN-305013				US-PATENT-CLASS-343-837				US-PATENT-APPL-SN-55333
N73-13462*	c 15		NASA-CASE-NPO-11479				US-PATENT-CLASS-343-915				US-PATENT-CLASS-331-45
			US-PATENT-APPL-SN-170440				US-PATENT-3,705,406				US-PATENT-CLASS-343-100R
			US-PATENT-CLASS-137-608		N73-14214*	c 09	NASA-CASE-ARC-10467-1				US-PATENT-CLASS-343-100SA
			US-PATENT-CLASS-137-81.5				US-PATENT-APPL-SN-212028				US-PATENT-CLASS-343-853
			US-PATENT-CLASS-138-45				US-PATENT-CLASS-250-205				US-PATENT-3,710,329
			US-PATENT-CLASS-251-122				US-PATENT-CLASS-250-211J		N73-16483*	c 14	NASA-CASE-ERC-10226-1
			US-PATENT-3,700,005				US-PATENT-CLASS-250-217SS				US-PATENT-APPL-SN-124909
N73-13463*	c 15		NASA-CASE-MFS-20317				US-PATENT-CLASS-307-310				US-PATENT-APPL-SN-808822
			US-PATENT-APPL-SN-67730				US-PATENT-CLASS-307-311				US-PATENT-CLASS-250-209
			US-PATENT-CLASS-173-131				US-PATENT-3,705,316				US-PATENT-CLASS-250-215
			US-PATENT-CLASS-72-447		N73-14427*	c 14	NASA-CASE-NPO-10758				US-PATENT-CLASS-250-217
			US-PATENT-CLASS-72-476				US-PATENT-APPL-SN-81096				US-PATENT-CLASS-315-153
			US-PATENT-3,699,799				US-PATENT-CLASS-352-169				US-PATENT-CLASS-340-25
N73-13464*	c 15		NASA-CASE-NPO-10812				US-PATENT-CLASS-95-12.5				US-PATENT-CLASS-340-27R
			US-PATENT-APPL-SN-129073				US-PATENT-CLASS-95-59				US-PATENT-3,708,671
			US-PATENT-CLASS-425-113				US-PATENT-3,704,659		N73-16484*	c 14	NASA-CASE-LAR-10739-1
			US-PATENT-CLASS-425-133		N73-14428*	c 14	NASA-CASE-NPO-10764-1				US-PATENT-APPL-SN-134567
			US-PATENT-CLASS-425-176				US-PATENT-APPL-SN-836280				US-PATENT-CLASS-250-217F
			US-PATENT-CLASS-72-258				US-PATENT-CLASS-252-408				US-PATENT-CLASS-340-228S
			US-PATENT-3,698,848				US-PATENT-3,700,603				US-PATENT-CLASS-340-418
N73-13465*	c 15		NASA-CASE-LEW-10805-1		N73-14429*	c 14	NASA-CASE-NPO-11387				US-PATENT-3,708,674
			US-PATENT-APPL-SN-29917				US-PATENT-APPL-SN-142719		N73-16536*	c 16	NASA-CASE-LAR-10311-1
			US-PATENT-CLASS-148-11.5R				US-PATENT-CLASS-73-57				US-PATENT-APPL-SN-31702
			US-PATENT-3,702,791				US-PATENT-CLASS-73-60				US-PATENT-CLASS-250-199
N73-13466*	c 15		NASA-CASE-MFS-20944				US-PATENT-3,706,221				US-PATENT-CLASS-340-171
			US-PATENT-APPL-SN-148756		N73-14468*	c 15	NASA-CASE-LAR-10103-1				US-PATENT-CLASS-350-293
			US-PATENT-CLASS-91-363A				US-PATENT-APPL-SN-103230				US-PATENT-3,710,122
			US-PATENT-CLASS-91-448				US-PATENT-CLASS-219-101		N73-16764*	c 27	NASA-CASE-NPO-12015
			US-PATENT-3,702,575				US-PATENT-CLASS-219-119				US-PATENT-APPL-SN-748662
N73-13467*	c 15		NASA-CASE-NPO-11369				US-PATENT-CLASS-29-203V				US-PATENT-CLASS-149-19
			US-PATENT-APPL-SN-129072				US-PATENT-3,705,288				US-PATENT-CLASS-149-36
			US-PATENT-CLASS-60-1		N73-14469*	c 15	NASA-CASE-GSC-10791-1				US-PATENT-3,708,359
			US-PATENT-CLASS-60-23				US-PATENT-APPL-SN-84289		N73-16918*	c 33	NASA-CASE-MS-15567-1

		US-PATENT-APPL-SN-87551			US-PATENT-CLASS-340-163			US-PATENT-CLASS-128-206F
		US-PATENT-CLASS-204-324			US-PATENT-3,715,723			US-PATENT-CLASS-324-78E
		US-PATENT-CLASS-204-325			NASA-CASE-LAR-10128-1			US-PATENT-3,729,676
		US-PATENT-CLASS-204-328			US-PATENT-APPL-SN-84002		N73-24513*	NASA-CASE-NPO-11417
		US-PATENT-3,708,419			US-PATENT-CLASS-235-92FQ			US-PATENT-APPL-SN-120241
N73-19004*	c 02	NASA-CASE-ERC-10439			US-PATENT-CLASS-235-92R			US-PATENT-CLASS-417-391
		US-PATENT-APPL-SN-54271			US-PATENT-CLASS-235-92T			US-PATENT-CLASS-60-25
		US-PATENT-CLASS-244-17.13			US-PATENT-CLASS-340-347AD			US-PATENT-3,732,040
		US-PATENT-CLASS-244-77D			US-PATENT-3,714,645		N73-24569*	NASA-CASE-LEW-10920-1
		US-PATENT-CLASS-318-489			NASA-CASE-ARC-10264-1			US-PATENT-APPL-SN-106424
		US-PATENT-3,711,042			US-PATENT-APPL-SN-80368			US-PATENT-CLASS-204-192
N73-19234*	c 09	NASA-CASE-GSC-11013-1			US-PATENT-CLASS-328-167			US-PATENT-3,732,158
		US-PATENT-APPL-SN-200717			US-PATENT-CLASS-330-109		N73-24783*	NASA-CASE-NPO-11880
		US-PATENT-CLASS-343-754			US-PATENT-CLASS-330-86			US-PATENT-APPL-SN-209535
		US-PATENT-CLASS-343-839			US-PATENT-3,714,588			US-PATENT-CLASS-313-DIG.8
		US-PATENT-CLASS-343-854			NASA-CASE-MFS-21433			US-PATENT-CLASS-313-231
		US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-236281			US-PATENT-CLASS-313-63
		US-PATENT-3,713,163			US-PATENT-CLASS-307-230			US-PATENT-CLASS-60-202
N73-19235*	c 09	NASA-CASE-MFS-20407			US-PATENT-CLASS-307-304			US-PATENT-3,313,204
		US-PATENT-APPL-SN-116777			US-PATENT-CLASS-330-20			US-PATENT-3,728,861
		US-PATENT-CLASS-317-235AM			US-PATENT-CLASS-330-22		N73-24784*	NASA-CASE-NPO-11559
		US-PATENT-CLASS-317-235N			US-PATENT-CLASS-330-30D			US-PATENT-APPL-SN-147996
		US-PATENT-CLASS-317-235R			US-PATENT-CLASS-330-35			US-PATENT-CLASS-102-49.7
		US-PATENT-CLASS-317-235T			US-PATENT-CLASS-330-40			US-PATENT-CLASS-102-49.8
		US-PATENT-CLASS-317-235UA			US-PATENT-CLASS-330-80T			US-PATENT-CLASS-60-254
		US-PATENT-3,714,526			US-PATENT-3,715,693			US-PATENT-CLASS-60-256
N73-19419*	c 14	NASA-CASE-LAR-10226-1			NASA-CASE-LAR-10310-1			US-PATENT-3,729,935
		US-PATENT-APPL-SN-98774			US-PATENT-APPL-SN-147103		N73-25125*	NASA-CASE-MFS-20332-2
		US-PATENT-CLASS-250-217R			US-PATENT-CLASS-235-197			US-PATENT-APPL-SN-195061
		US-PATENT-CLASS-95-11.5R			US-PATENT-3,714,405			US-PATENT-APPL-SN-869260
		US-PATENT-CLASS-95-11R			NASA-CASE-NPO-11868			US-PATENT-CLASS-128-142.5
		US-PATENT-3,712,195			US-PATENT-APPL-SN-192101			US-PATENT-CLASS-137-538
N73-19420*	c 14	NASA-CASE-MFS-20774			US-PATENT-CLASS-307-221R			US-PATENT-CLASS-2-2.1A
		US-PATENT-APPL-SN-161028			US-PATENT-CLASS-328-187			US-PATENT-3,720,208
		US-PATENT-CLASS-73-84			US-PATENT-CLASS-328-37		N73-25160*	NASA-CASE-ARC-10097-2
		US-PATENT-3,712,121			US-PATENT-CLASS-328-61			US-PATENT-APPL-SN-115083
N73-19421*	c 14	NASA-CASE-MFS-20242			US-PATENT-3,718,863			US-PATENT-APPL-SN-768662
		US-PATENT-APPL-SN-213004			NASA-CASE-MFS-21362			US-PATENT-CLASS-325-113
		US-PATENT-CLASS-73-71.6			US-PATENT-APPL-SN-211411			US-PATENT-CLASS-325-139
		US-PATENT-3,712,120			US-PATENT-CLASS-73-432SD			US-PATENT-CLASS-325-45
N73-19457*	c 15	NASA-CASE-MFS-20698-2			US-PATENT-3,714,833			US-PATENT-CLASS-325-61
		US-PATENT-APPL-SN-136086			NASA-CASE-ERC-10350			US-PATENT-CLASS-340-207
		US-PATENT-APPL-SN-3418			US-PATENT-APPL-SN-55535			US-PATENT-CLASS-340-258R
		US-PATENT-CLASS-423-446			US-PATENT-CLASS-340-27R			US-PATENT-3,719,891
		US-PATENT-CLASS-423-625			US-PATENT-3,714,624		N73-25161*	NASA-CASE-NPO-11707
		US-PATENT-3,714,332			NASA-CASE-LAR-10726-1			US-PATENT-APPL-SN-196399
N73-19458*	c 15	NASA-CASE-LAR-10195-1			US-PATENT-APPL-SN-146935			US-PATENT-CLASS-343-6.5R
		US-PATENT-APPL-SN-201782			US-PATENT-CLASS-250-231			US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-259-4			US-PATENT-CLASS-250-83.3H			US-PATENT-3,729,736
		US-PATENT-3,712,591			US-PATENT-3,714,432		N73-25206*	NASA-CASE-NPO-11497
N73-19630* #	c 21	NASA-CASE-GSC-11188-2			NASA-CASE-MFS-20673			US-PATENT-APPL-SN-155565
		US-PATENT-APPL-SN-244440			US-PATENT-APPL-SN-94049			US-PATENT-CLASS-235-10.2
N73-19793*	c 28	NASA-CASE-LEW-11187-1			US-PATENT-CLASS-73-90			US-PATENT-CLASS-235-151.27
		US-PATENT-APPL-SN-147922			US-PATENT-CLASS-73-91			US-PATENT-CLASS-235-92CV
		US-PATENT-CLASS-60-39.28R			US-PATENT-3,714,821			US-PATENT-CLASS-235-92DN
		US-PATENT-3,713,290			NASA-CASE-ARC-10443-1			US-PATENT-CLASS-235-92EA
N73-20039*	c 03	NASA-CASE-GSC-10814-1			US-PATENT-APPL-SN-128419			US-PATENT-CLASS-235-92EV
		US-PATENT-APPL-SN-41404			US-PATENT-CLASS-250-83.3R			US-PATENT-CLASS-235-92R
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-250-83R			US-PATENT-3,729,129
		US-PATENT-CLASS-244-1SS			US-PATENT-3,715,590		N73-25240*	NASA-CASE-MSC-12428-1
		US-PATENT-3,715,092			NASA-CASE-NPO-10985			US-PATENT-APPL-SN-170681
N73-20040*	c 03	NASA-CASE-NPO-11771			US-PATENT-APPL-SN-74759			US-PATENT-CLASS-179-1SA
		US-PATENT-APPL-SN-200762			US-PATENT-CLASS-324-30R			US-PATENT-CLASS-235-151.31
		US-PATENT-CLASS-244-1.55			US-PATENT-CLASS-324-65P			US-PATENT-CLASS-324-77R
		US-PATENT-CLASS-250-212			US-PATENT-CLASS-73-194E			US-PATENT-CLASS-324-78J
		US-PATENT-CLASS-250-234			US-PATENT-3,712,132			US-PATENT-3,732,405
		US-PATENT-CLASS-60-26			NASA-CASE-NPO-11213		N73-25241*	NASA-CASE-GSC-11239-1
		US-PATENT-3,715,600			US-PATENT-APPL-SN-78703			US-PATENT-APPL-SN-180683
N73-20137*	c 05	NASA-CASE-LAR-10076-1			US-PATENT-CLASS-195-127			US-PATENT-CLASS-325-363
		US-PATENT-APPL-SN-84290			US-PATENT-3,713,987			US-PATENT-CLASS-325-67
		US-PATENT-CLASS-165-46			NASA-CASE-LAR-10765-1			US-PATENT-3,737,781
		US-PATENT-CLASS-312-1			US-PATENT-APPL-SN-138230		N73-25243*	NASA-CASE-MFS-21919-1
		US-PATENT-CLASS-62-259			US-PATENT-CLASS-356-32			US-PATENT-APPL-SN-193456
		US-PATENT-3,713,480			US-PATENT-CLASS-73-88A			US-PATENT-CLASS-317-101DH
N73-20174*	c 07	NASA-CASE-GSC-10087-4			US-PATENT-3,715,915			US-PATENT-3,735,206
		US-PATENT-APPL-SN-47440			NASA-CASE-ARC-10194-1			US-PATENT-3,731,528
		US-PATENT-APPL-SN-701679			US-PATENT-APPL-SN-107659		N73-25262*	NASA-CASE-LAR-10578-1
		US-PATENT-CLASS-325-12			US-PATENT-CLASS-350-202			US-PATENT-APPL-SN-233098
		US-PATENT-CLASS-325-17			US-PATENT-3,715,152			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-325-4			NASA-CASE-NPO-10166-1			US-PATENT-3,731,528
		US-PATENT-CLASS-325-5			US-PATENT-APPL-SN-192803		N73-25460*	NASA-CASE-MFS-20916
		US-PATENT-CLASS-325-63			NASA-CASE-NPO-10893			US-PATENT-APPL-SN-212165
		US-PATENT-CLASS-325-7			US-PATENT-APPL-SN-845584			US-PATENT-CLASS-73-189
		US-PATENT-CLASS-325-8			US-PATENT-CLASS-260-94.8			US-PATENT-3,731,531
		US-PATENT-CLASS-325-9			US-PATENT-3,634,383		N73-25461*	NASA-CASE-KSC-10108
		US-PATENT-CLASS-343-179			NASA-CASE-NPO-11751			US-PATENT-APPL-SN-73922
		US-PATENT-3,715,663			US-PATENT-APPL-SN-192141			US-PATENT-CLASS-343-14
N73-20175*	c 07	NASA-CASE-KSC-10698			US-PATENT-CLASS-343-DIG.2			US-PATENT-CLASS-343-17.5
		US-PATENT-APPL-SN-213949			US-PATENT-CLASS-343-915			US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-324-72			US-PATENT-3,729,743			US-PATENT-3,732,567
		US-PATENT-CLASS-73-170R			NASA-CASE-LEW-11072-1		N73-25462*	NASA-CASE-NPO-11686
		US-PATENT-3,715,660			US-PATENT-APPL-SN-104885			US-PATENT-APPL-SN-212900
N73-20176*	c 07	NASA-CASE-KSC-10521			US-PATENT-CLASS-136-225			US-PATENT-CLASS-250-203R
		US-PATENT-APPL-SN-212921			US-PATENT-3,729,343			US-PATENT-CLASS-250-214
		US-PATENT-CLASS-340-146.1C			NASA-CASE-MFS-20418			US-PATENT-CLASS-250-214
		US-PATENT-CLASS-340-147R			US-PATENT-APPL-SN-162101			US-PATENT-CLASS-250-83.3H

N73-25463*	c 14	US-PATENT-CLASS-356-152	N73-26175*	c 08	US-PATENT-3,737,231	N73-26958*	c 33	US-PATENT-3,733,424
		US-PATENT-3,723,745			NASA-CASE-NPO-11821-1			NASA-CASE-NPO-11330
		NASA-CASE-ARC-10278-1			US-PATENT-APPL-SN-236285			US-PATENT-APPL-SN-118269
		US-PATENT-APPL-SN-154933			US-PATENT-CLASS-235-152			US-PATENT-CLASS-285-DIG.21
N73-25512*	c 15	US-PATENT-CLASS-356-110	N73-26176*	c 08	US-PATENT-CLASS-235-164	N73-27052*	c 04	US-PATENT-CLASS-285-316
		US-PATENT-3,729,260			US-PATENT-CLASS-328-167			US-PATENT-3,737,181
		NASA-CASE-LAR-10129-1			US-PATENT-3,732,409			NASA-CASE-GSC-11092-2
		US-PATENT-APPL-SN-99201			NASA-CASE-NPO-11456			US-PATENT-APPL-SN-139250
N73-25513*	c 15	US-PATENT-CLASS-182-5	N73-26195*	c 09	US-PATENT-APPL-SN-153543	N73-27062*	c 05	US-PATENT-APPL-SN-60950
		US-PATENT-CLASS-188-65.1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-103.5R
		US-PATENT-CLASS-24-134R			US-PATENT-3,740,725			US-PATENT-3,745,090
		US-PATENT-CLASS-254-156			NASA-CASE-GSC-10990-1			NASA-CASE-LEW-11669-1
N73-25760*	c 25	US-PATENT-3,729,068	N73-26228*	c 10	US-PATENT-APPL-SN-93329	N73-27086*	c 06	US-PATENT-APPL-SN-198885
		NASA-CASE-GSC-11205-1			US-PATENT-CLASS-333-73R			US-PATENT-CLASS-128-2
		US-PATENT-APPL-SN-107376			US-PATENT-CLASS-333-73S			US-PATENT-CLASS-128-24A
		US-PATENT-CLASS-188-266			US-PATENT-CLASS-333-82A			US-PATENT-CLASS-128-305
N73-25952*	c 33	US-PATENT-CLASS-244-15A	N73-26229*	c 10	US-PATENT-CLASS-333-84M	N73-27150* #	c 09	US-PATENT-CLASS-32-28
		US-PATENT-3,737,118			US-PATENT-3,737,815			US-PATENT-CLASS-32-58
		NASA-CASE-LEW-11180-1			NASA-CASE-ERC-10403-1			US-PATENT-3,736,938
		US-PATENT-APPL-SN-175852			US-PATENT-APPL-SN-253405			NASA-CASE-GSC-10225-1
N73-26004*	c 02	US-PATENT-CLASS-313-161	N73-26230*	c 10	US-PATENT-CLASS-317-DIG.6	N73-27171*	c 10	US-PATENT-APPL-SN-710621
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-321-11			US-PATENT-CLASS-195-66R
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-321-45C			US-PATENT-3,745,089
		US-PATENT-3,735,591			US-PATENT-3,737,757			NASA-CASE-ERC-10224-2
N73-26005*	c 02	NASA-CASE-LEW-10359-2	N73-26238*	c 11	NASA-CASE-NPO-11569	N73-27376* #	c 14	US-PATENT-APPL-SN-221833
		US-PATENT-APPL-SN-150215			US-PATENT-APPL-SN-199957			US-PATENT-APPL-SN-868775
		US-PATENT-APPL-SN-47063			US-PATENT-CLASS-307-220			US-PATENT-CLASS-29-580
		US-PATENT-CLASS-102-105			US-PATENT-CLASS-307-233			US-PATENT-CLASS-317-234G
N73-26006*	c 02	US-PATENT-CLASS-244-117A	N73-26430*	c 14	US-PATENT-3,737,676	N73-27377*	c 14	US-PATENT-CLASS-317-234L
		US-PATENT-CLASS-60-200A			NASA-CASE-MSC-13907-1			US-PATENT-CLASS-317-234M
		US-PATENT-CLASS-60-265			US-PATENT-APPL-SN-254177			US-PATENT-CLASS-317-234N
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-235-186			US-PATENT-CLASS-317-234R
N73-26071*	c 05	US-PATENT-CLASS-62-467	N73-26431*	c 14	US-PATENT-CLASS-235-194	N73-27378*	c 14	US-PATENT-3,742,316
		US-PATENT-3,720,075			US-PATENT-3,737,639			NASA-CASE-NPO-11941-1
		NASA-CASE-LAR-10682-1			US-PATENT-3,737,333			US-PATENT-APPL-SN-241614
		US-PATENT-APPL-SN-127915			US-PATENT-APPL-SN-144139			US-PATENT-CLASS-330-70CR
N73-26072*	c 05	US-PATENT-CLASS-244-75A	N73-26432*	c 14	US-PATENT-CLASS-180-41	N73-27379*	c 14	US-PATENT-CLASS-331-17
		US-PATENT-CLASS-244-76C			US-PATENT-CLASS-180-6.5			US-PATENT-CLASS-331-25
		US-PATENT-CLASS-244-77F			US-PATENT-CLASS-180-7R			US-PATENT-3,740,671
		US-PATENT-CLASS-244-77G			US-PATENT-CLASS-180-8A			NASA-CASE-HQN-10037-1
N73-26100*	c 06	US-PATENT-3,734,432	N73-26472*	c 15	US-PATENT-CLASS-180-9.2R	N73-27405*	c 15	US-PATENT-APPL-SN-235957
		NASA-CASE-ARC-10470-1			US-PATENT-CLASS-180-9.5			US-PATENT-CLASS-73-28
		US-PATENT-APPL-SN-206279			US-PATENT-CLASS-305-35EB			US-PATENT-3,741,001
		US-PATENT-CLASS-244-13			US-PATENT-CLASS-305-39			NASA-CASE-MFS-21046-1
N73-26117*	c 07	US-PATENT-CLASS-244-46	N73-26572*	c 18	US-PATENT-CLASS-305-39	N73-27406*	c 15	US-PATENT-APPL-SN-156725
		US-PATENT-CLASS-244-55			US-PATENT-3,730,287			US-PATENT-CLASS-272-73
		US-PATENT-3,737,121			NASA-CASE-NPO-11304			US-PATENT-CLASS-35-12C
		NASA-CASE-MSC-12393-1			US-PATENT-APPL-SN-101214			US-PATENT-3,744,794
N73-26118*	c 07	US-PATENT-APPL-SN-203405	N73-26751*	c 26	US-PATENT-CLASS-219-499	N73-27446*	c 17	NASA-CASE-KSC-10626
		US-PATENT-CLASS-114-122			US-PATENT-CLASS-219-50			US-PATENT-APPL-SN-180963
		US-PATENT-CLASS-9-11A			US-PATENT-3,733,463			US-PATENT-CLASS-222-414
		US-PATENT-CLASS-9-2A			NASA-CASE-MSC-12363-1			US-PATENT-CLASS-244-15S
N73-26119*	c 07	US-PATENT-CLASS-9-3	N73-26876*	c 31	US-PATENT-APPL-SN-125236	N73-27699*	c 28	US-PATENT-CLASS-244-135
		US-PATENT-3,736,607			US-PATENT-CLASS-95-1.1			US-PATENT-3,744,738
		NASA-CASE-ARC-10599-1			US-PATENT-3,736,849			NASA-CASE-FRC-10060-1
		US-PATENT-APPL-SN-247481			NASA-CASE-ERC-10276			US-PATENT-APPL-SN-189290
N73-26195*	c 09	US-PATENT-CLASS-165-46	N73-26910*	c 32	US-PATENT-APPL-SN-24155	N73-27941*	c 05	US-PATENT-CLASS-179-175.1A
		US-PATENT-CLASS-2-2.1			US-PATENT-CLASS-250-209			US-PATENT-CLASS-340-5C
		US-PATENT-CLASS-62-176			US-PATENT-CLASS-340-15.5GC			US-PATENT-CLASS-73-10V
		US-PATENT-CLASS-62-207			US-PATENT-CLASS-343-100ME			US-PATENT-3,744,294
N73-26200*	c 02	US-PATENT-CLASS-62-209	N73-26910*	c 32	US-PATENT-3,737,905	N73-27941*	c 05	NASA-CASE-MFS-20855
		US-PATENT-CLASS-62-259			NASA-CASE-KSC-10639			US-PATENT-APPL-SN-127647
		US-PATENT-CLASS-62-89			US-PATENT-APPL-SN-181023			US-PATENT-CLASS-219-348
		US-PATENT-3,736,764			US-PATENT-CLASS-137-397			US-PATENT-CLASS-53-112A
N73-26204*	c 02	NASA-CASE-ARC-10329-1	N73-26910*	c 32	US-PATENT-CLASS-137-582	N73-27941*	c 05	US-PATENT-CLASS-53-22A
		US-PATENT-APPL-SN-159857			US-PATENT-3,736,956			US-PATENT-3,745,739
		US-PATENT-CLASS-128-2.1R			NASA-CASE-ARC-10304-1			NASA-CASE-NPO-11377
		US-PATENT-CLASS-351-23			US-PATENT-APPL-SN-140946			US-PATENT-APPL-SN-187262
N73-26205*	c 02	US-PATENT-CLASS-351-30	N73-26910*	c 32	US-PATENT-CLASS-252-8.1	N73-27941*	c 05	US-PATENT-CLASS-137-1
		US-PATENT-CLASS-351-36			US-PATENT-3,730,891			US-PATENT-CLASS-137-154
		US-PATENT-3,737,217			NASA-CASE-MFS-20675			US-PATENT-CLASS-137-604
		NASA-CASE-GSC-11358-1			US-PATENT-APPL-SN-200085			US-PATENT-3,744,510
N73-26206*	c 02	US-PATENT-APPL-SN-226551	N73-26910*	c 32	US-PATENT-CLASS-250-219TH	N73-27941*	c 05	NASA-CASE-LAR-10953-1
		US-PATENT-CLASS-260-46.5R			US-PATENT-CLASS-356-108			US-PATENT-APPL-SN-163152
		US-PATENT-3,733,350			US-PATENT-CLASS-356-161			US-PATENT-CLASS-23-230R
		NASA-CASE-KSC-10392			US-PATENT-CLASS-356-202			US-PATENT-3,744,972
N73-26207*	c 02	US-PATENT-APPL-SN-181024	N73-26910*	c 32	US-PATENT-3,737,237	N73-27941*	c 05	NASA-CASE-XLE-10453-2
		US-PATENT-CLASS-343-880			NASA-CASE-LEW-11726-1			US-PATENT-APPL-SN-180473
		US-PATENT-CLASS-343-883			US-PATENT-APPL-SN-280031			US-PATENT-APPL-SN-758540
		US-PATENT-CLASS-343-889			US-PATENT-CLASS-156-18			US-PATENT-CLASS-313-217
N73-26208*	c 02	US-PATENT-CLASS-343-895	N73-26910*	c 32	US-PATENT-CLASS-174-DIG.6	N73-27941*	c 05	US-PATENT-CLASS-313-218
		US-PATENT-3,737,912			US-PATENT-CLASS-174-DIG.6			US-PATENT-CLASS-313-230
		NASA-CASE-NPO-11548			US-PATENT-CLASS-29-599			US-PATENT-CLASS-313-355
		US-PATENT-APPL-SN-151411			US-PATENT-CLASS-336-DIG.1			US-PATENT-CLASS-313-63
N73-26209*	c 02	US-PATENT-CLASS-179-15A	N73-26910*	c 32	US-PATENT-CLASS-336-200	N73-27941*	c 05	US-PATENT-CLASS-60-202
		US-PATENT-CLASS-325-40			US-PATENT-3,737,824			US-PATENT-3,744,247
		US-PATENT-CLASS-343-204			NASA-CASE-MFS-20863			NASA-CASE-LAR-10439-1
		US-PATENT-3,737,776			US-PATENT-APPL-SN-159966			US-PATENT-APPL-SN-182033
N73-26210*	c 02	NASA-CASE-NPO-11426	N73-26910*	c 32	US-PATENT-CLASS-244-1SD	N73-27941*	c 05	US-PATENT-CLASS-356-72
		US-PATENT-APPL-SN-89210			US-PATENT-CLASS-244-137P			US-PATENT-CLASS-73-339
		US-PATENT-CLASS-250-199			US-PATENT-3,737,117			US-PATENT-CLASS-73-432R
		US-PATENT-CLASS-331-94.5			NASA-CASE-LAR-10756-1			US-PATENT-CLASS-73-86
N73-26211*	c 07	US-PATENT-CLASS-332-7.51	N73-26910*	c 32	US-PATENT-APPL-SN-160859	N73-27941*	c 05	US-PATENT-3,745,816
		US-PATENT-CLASS-356-4			US-PATENT-CLASS-235-92MT			NASA-CASE-MFS-21109-1
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-73-67.3			US-PATENT-APPL-SN-202769
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-73-88.5R			US-PATENT-CLASS-128-2.05R

			US-PATENT-CLASS-128-2.06R				US-PATENT-CLASS-317-158				US-PATENT-APPL-SN-11220
			US-PATENT-CLASS-272-73				US-PATENT-3,244,943				US-PATENT-APPL-SN-51317
			US-PATENT-CLASS-73-379	N73-28573*	c 17		NASA-CASE-XNP-08876				US-PATENT-CLASS-250-105
			US-PATENT-3,744,480				US-PATENT-APPL-SN-527331				US-PATENT-CLASS-250-65R
N73-27980*	c 06		NASA-CASE-LEW-11325-1				US-PATENT-CLASS-75-66				US-PATENT-3,749,911
			US-PATENT-APPL-SN-184960				US-PATENT-3,419,384	N73-30390*	c 14		NASA-CASE-XGS-07752
			US-PATENT-CLASS-117-161P	N73-28710*	c 26		NASA-CASE-XNP-01185				US-PATENT-APPL-SN-533659
			US-PATENT-CLASS-117-161UN				US-PATENT-APPL-SN-155595				US-PATENT-CLASS-73-4
			US-PATENT-CLASS-117-228				US-PATENT-CLASS-317-158				US-PATENT-3,395,565
			US-PATENT-CLASS-161-214				US-PATENT-3,198,994	N73-30391*	c 14		NASA-CASE-XLA-05087
			US-PATENT-CLASS-161-227	N73-30078*	c 05		NASA-CASE-MFS-21010-1				US-PATENT-APPL-SN-459407
			US-PATENT-CLASS-260-30.2				US-PATENT-APPL-SN-251609				US-PATENT-CLASS-315-111
			US-PATENT-CLASS-260-30.8DS				US-PATENT-CLASS-73-379				US-PATENT-3,394,286
			US-PATENT-CLASS-260-32.6N				US-PATENT-3,750,479	N73-30392*	c 14		NASA-CASE-MFS-21441-1
			US-PATENT-CLASS-260-33.4R	N73-30097*	c 06		NASA-CASE-LAR-10670-1				US-PATENT-APPL-SN-231662
			US-PATENT-CLASS-260-33.6R				US-PATENT-APPL-SN-59892				US-PATENT-CLASS-250-394
			US-PATENT-CLASS-260-47CP				US-PATENT-CLASS-149-1				US-PATENT-CLASS-250-518
			US-PATENT-CLASS-260-65				US-PATENT-CLASS-149-36				US-PATENT-3,752,986
			US-PATENT-CLASS-260-78TF				US-PATENT-CLASS-252-301.4	N73-30393*	c 14		NASA-CASE-GSC-11487-1
			US-PATENT-CLASS-260-78UA				US-PATENT-CLASS-252-305				US-PATENT-APPL-SN-193814
			US-PATENT-3,745,149				US-PATENT-CLASS-60-215				US-PATENT-CLASS-250-203
N73-28012*	c 07		NASA-CASE-NPO-11593-1				US-PATENT-3,751,913				US-PATENT-CLASS-350-199
			US-PATENT-APPL-SN-172807	N73-30098*	c 06		NASA-CASE-MFS-21040-1				US-PATENT-CLASS-350-204
			US-PATENT-CLASS-179-15FS				US-PATENT-APPL-SN-183240				US-PATENT-CLASS-350-55
			US-PATENT-CLASS-325-419				US-PATENT-CLASS-260-485F				US-PATENT-3,752,559
			US-PATENT-CLASS-329-122				US-PATENT-3,752,847	N73-30394*	c 14		NASA-CASE-LAR-10000
			US-PATENT-3,745,255	N73-30099*	c 06		NASA-CASE-MFS-10512				US-PATENT-APPL-SN-613235
N73-28013*	c 07		NASA-CASE-GSC-11046-1				US-PATENT-APPL-SN-606027				US-PATENT-CLASS-73-398
			US-PATENT-APPL-SN-182399				US-PATENT-CLASS-260-77.5				US-PATENT-3,446,075
			US-PATENT-CLASS-343-725				US-PATENT-3,463,761	N73-30395*	c 14		NASA-CASE-LAR-10623-1
			US-PATENT-CLASS-343-729	N73-30100*	c 06		NASA-CASE-MFS-10506				US-PATENT-APPL-SN-214086
			US-PATENT-CLASS-343-797				US-PATENT-APPL-SN-606036				US-PATENT-CLASS-15-415
			US-PATENT-CLASS-343-803				US-PATENT-CLASS-260-77.5				US-PATENT-CLASS-73-28
			US-PATENT-CLASS-343-893				US-PATENT-3,463,762				US-PATENT-CLASS-73-421.5R
			US-PATENT-3,747,111	N73-30101*	c 06		NASA-CASE-MFS-10507				US-PATENT-3,748,905
N73-28045*	c 08		NASA-CASE-XNP-00477				US-PATENT-APPL-SN-605994	N73-30457*	c 15		NASA-CASE-GSC-11149-1
			US-PATENT-APPL-SN-175497				US-PATENT-CLASS-260-615				US-PATENT-APPL-SN-152849
			US-PATENT-CLASS-340-347				US-PATENT-3,452,103				US-PATENT-CLASS-254-29A
			US-PATENT-3,219,997	N73-30102*	c 06		NASA-CASE-MFS-11492				US-PATENT-CLASS-29-452
N73-28083*	c 09		NASA-CASE-GSC-11215-1				US-PATENT-APPL-SN-707440				US-PATENT-CLASS-81-57.38
			US-PATENT-APPL-SN-114873				US-PATENT-CLASS-260-2				US-PATENT-3,749,362
			US-PATENT-CLASS-29-628				US-PATENT-3,577,356	N73-30458*	c 15		NASA-CASE-LEW-11087-1
			US-PATENT-CLASS-29-629	N73-30103*	c 06		NASA-CASE-MFS-10509				US-PATENT-APPL-SN-201904
			US-PATENT-CLASS-29-630				US-PATENT-APPL-SN-605964				US-PATENT-CLASS-308-188
			US-PATENT-CLASS-29-630A				US-PATENT-CLASS-260-77.5				US-PATENT-CLASS-308-193
			US-PATENT-3,744,128				US-PATENT-3,475,384				US-PATENT-3,751,123
N73-28084*	c 09		NASA-CASE-XNP-03623	N73-30113*	c 07		NASA-CASE-NPO-11628-1	N73-30459*	c 15		NASA-CASE-MSC-13587-1
			US-PATENT-APPL-SN-471154				US-PATENT-APPL-SN-207211				US-PATENT-APPL-SN-206698
			US-PATENT-CLASS-178-69.5				US-PATENT-CLASS-325-420				US-PATENT-CLASS-137-516.27
			US-PATENT-3,402,265				US-PATENT-CLASS-325-422				US-PATENT-CLASS-137-535
N73-28144*	c 12		NASA-CASE-LAR-10612-1				US-PATENT-CLASS-329-120				US-PATENT-3,749,123
			US-PATENT-APPL-SN-233173				US-PATENT-3,746,998	N73-30460*	c 15		NASA-CASE-HON-10638-1
			US-PATENT-CLASS-73-147	N73-30115*	c 07		NASA-CASE-KSC-10654-1				US-PATENT-APPL-SN-212977
			US-PATENT-3,744,305				US-PATENT-APPL-SN-250766				US-PATENT-CLASS-188-1C
N73-28486*	c 14		NASA-CASE-NPO-11749				US-PATENT-CLASS-178-DIG.23				US-PATENT-CLASS-297-386
			US-PATENT-APPL-SN-175267				US-PATENT-CLASS-178-6.DD				US-PATENT-3,749,205
			US-PATENT-CLASS-324-52				US-PATENT-CLASS-178-6.8	N73-30476*	c 16		NASA-CASE-MFS-20823-1
			US-PATENT-CLASS-73-15R				US-PATENT-CLASS-179-15BS				US-PATENT-APPL-SN-175981
			US-PATENT-3,737,762				US-PATENT-3,749,831				US-PATENT-CLASS-350-3.5
N73-28487*	c 14		NASA-CASE-XLA-08916-2	N73-30135*	c 08		NASA-CASE-NPO-10817-1				US-PATENT-CLASS-356-108
			US-PATENT-APPL-SN-777765				US-PATENT-APPL-SN-82849				US-PATENT-CLASS-356-109
			US-PATENT-APPL-SN-97472				US-PATENT-CLASS-250-229				US-PATENT-3,744,912
			US-PATENT-CLASS-73-170R				US-PATENT-CLASS-250-237R	N73-30532*	c 18		NASA-CASE-ERC-10339-1
			US-PATENT-CLASS-73-432R				US-PATENT-CLASS-250-239				US-PATENT-APPL-SN-43883
			US-PATENT-3,744,320				US-PATENT-3,745,352				US-PATENT-CLASS-156-285
N73-28488*	c 14		NASA-CASE-LEW-11159-1	N73-30181*	c 09		NASA-CASE-MFS-21214-1				US-PATENT-3,745,082
			US-PATENT-APPL-SN-104346				US-PATENT-APPL-SN-235269	N73-30640*	c 21		NASA-CASE-GSC-10890-1
			US-PATENT-CLASS-250-336				US-PATENT-CLASS-313-161				US-PATENT-APPL-SN-111998
			US-PATENT-CLASS-307-308				US-PATENT-CLASS-315-248				US-PATENT-CLASS-244-15A
			US-PATENT-3,745,357				US-PATENT-CLASS-315-324				US-PATENT-CLASS-250-203R
N73-28489*	c 14		NASA-CASE-GSC-11074-1				US-PATENT-3,745,410				US-PATENT-CLASS-250-209
			US-PATENT-APPL-SN-198362	N73-30185*	c 09		NASA-CASE-NPO-11738-1				US-PATENT-CLASS-250-236
			US-PATENT-CLASS-34-155				US-PATENT-APPL-SN-235295				US-PATENT-3,752,993
			US-PATENT-CLASS-34-160				US-PATENT-CLASS-335-296	N73-30641*	c 21		NASA-CASE-LAR-10717-1
			US-PATENT-CLASS-34-162				US-PATENT-CLASS-335-297				US-PATENT-APPL-SN-242028
			US-PATENT-3,744,148				US-PATENT-3,750,067				US-PATENT-CLASS-343-112CA
N73-28490*	c 14		NASA-CASE-GSC-11444-1	N73-30205*	c 10		NASA-CASE-NPO-11307-1				US-PATENT-CLASS-343-6.5R
			US-PATENT-APPL-SN-229128				US-PATENT-APPL-SN-169671				US-PATENT-3,750,168
			US-PATENT-CLASS-250-203R				US-PATENT-CLASS-340-277	N73-30665*	c 23		NASA-CASE-LEW-11326-1
			US-PATENT-CLASS-250-209				US-PATENT-CLASS-340-279				US-PATENT-APPL-SN-192970
			US-PATENT-CLASS-250-214R				US-PATENT-3,750,131				US-PATENT-CLASS-431-173
			US-PATENT-CLASS-356-141	N73-30386*	c 14		NASA-CASE-MFS-20658-1				US-PATENT-CLASS-431-9
			US-PATENT-3,744,913				US-PATENT-APPL-SN-205675				US-PATENT-CLASS-60-39.65
N73-28491*	c 14		NASA-CASE-XNP-05231				US-PATENT-CLASS-324-79D				US-PATENT-CLASS-60-39.66
			US-PATENT-APPL-SN-524746				US-PATENT-CLASS-328-129				US-PATENT-CLASS-60-39.72
			US-PATENT-CLASS-250-51.5				US-PATENT-CLASS-328-134				US-PATENT-CLASS-60-39.74R
			US-PATENT-3,440,419				US-PATENT-CLASS-328-48				US-PATENT-3,748,853
N73-28515*	c 15		NASA-CASE-LEW-10533-1				US-PATENT-3,745,475	N73-30666*	c 23		NASA-CASE-GSC-11296-1
			US-PATENT-APPL-SN-134658	N73-30388*	c 14		NASA-CASE-NPO-11291-1				US-PATENT-APPL-SN-228190
			US-PATENT-CLASS-219-107				US-PATENT-APPL-SN-116790				US-PATENT-CLASS-350-1625F
			US-PATENT-CLASS-219-62				US-PATENT-CLASS-324-29.5				US-PATENT-CLASS-350-55
			US-PATENT-CLASS-27-498				US-PATENT-CLASS-324-57R				US-PATENT-3,752,564
			US-PATENT-CLASS-29-497.5				US-PATENT-CLASS-324-62R	N73-30829*	c 31		NASA-CASE-GSC-11018-1
			US-PATENT-3,745,300				US-PATENT-CLASS-324-95				US-PATENT-APPL-SN-244523
N73-28516*	c 15		NASA-CASE-XNP-01187				US-PATENT-3,750,016				US-PATENT-CLASS-165-105
			US-PATENT-APPL-SN-155598	N73-30389*	c 14		NASA-CASE-MFS-20546-2				US-PATENT-CLASS-165-32

			US-PATENT-CLASS-165-47				US-PATENT-3,760,239			US-PATENT-CLASS-117-151	
			US-PATENT-CLASS-165-96				NASA-CASE-MSC-13746-1			US-PATENT-CLASS-117-160R	
			US-PATENT-CLASS-244-1SS				US-PATENT-APPL-SN-226476			US-PATENT-CLASS-117-66	
			US-PATENT-3,749,156				US-PATENT-CLASS-178-18			US-PATENT-CLASS-29-527.2	
N73-31988*	c 03		NASA-CASE-MSC-12396-1				US-PATENT-3,758,718			US-PATENT-CLASS-72-53	
			US-PATENT-APPL-SN-258331				NASA-CASE-NPO-11703-1			US-PATENT-3,754,976	
			US-PATENT-CLASS-307-18				US-PATENT-APPL-SN-223560		N73-32361*	c 15	NASA-CASE-XNP-01188
			US-PATENT-CLASS-307-28				US-PATENT-CLASS-340-166				US-PATENT-APPL-SN-155596
			US-PATENT-CLASS-307-29				US-PATENT-CLASS-340-173				US-PATENT-CLASS-317-158
			US-PATENT-CLASS-307-38				US-PATENT-CLASS-340-223				US-PATENT-3,262,025
			US-PATENT-3,755,686				US-PATENT-CLASS-340-415		N73-32362*	c 15	NASA-CASE-XNP-07169
N73-32011*	c 05		NASA-CASE-GSC-11169-2				US-PATENT-3,760,394				US-PATENT-APPL-SN-486884
			US-PATENT-APPL-SN-139094				NASA-CASE-MFS-21465-1				US-PATENT-CLASS-175-26
			US-PATENT-APPL-SN-60882				US-PATENT-APPL-SN-218965				US-PATENT-3,375,885
			US-PATENT-CLASS-195-127				US-PATENT-CLASS-307-271		N73-32391*	c 16	NASA-CASE-GSC-11222-1
			US-PATENT-3,756,920				US-PATENT-CLASS-318-230				US-PATENT-APPL-SN-251621
N73-32012*	c 05		NASA-CASE-MSC-12609-1				US-PATENT-CLASS-318-231				US-PATENT-CLASS-307-157
			US-PATENT-APPL-SN-750031				US-PATENT-CLASS-318-341				US-PATENT-CLASS-315-DIG.2
			US-PATENT-CLASS-128-1A				US-PATENT-CLASS-331-135				US-PATENT-CLASS-315-101
			US-PATENT-CLASS-2-2.1A				US-PATENT-3,760,248				US-PATENT-CLASS-315-258
			US-PATENT-CLASS-2-81				NASA-CASE-MSC-13789-1				US-PATENT-CLASS-315-356
			US-PATENT-3,751,727				US-PATENT-APPL-SN-166487				US-PATENT-CLASS-330-4.3
N73-32013*	c 05		NASA-CASE-MFS-16570-1				US-PATENT-CLASS-102-95				US-PATENT-CLASS-331-94.5
			US-PATENT-APPL-SN-228150				US-PATENT-CLASS-188-1C				US-PATENT-3,758,877
			US-PATENT-CLASS-3-1.1				US-PATENT-CLASS-89-8		N73-32414*	c 17	NASA-CASE-LEW-11267-1
			US-PATENT-CLASS-3-12				US-PATENT-3,763,740				US-PATENT-APPL-SN-190316
			US-PATENT-CLASS-3-2				NASA-CASE-NPO-12128-1				US-PATENT-CLASS-29-196.2
			US-PATENT-CLASS-3-6				US-PATENT-APPL-SN-841845				US-PATENT-CLASS-29-196.6
N73-32014*	c 05		US-PATENT-3,751,733				US-PATENT-CLASS-250-207				US-PATENT-CLASS-29-197
			NASA-CASE-MSC-11561-1				US-PATENT-CLASS-250-83.3R				US-PATENT-3,762,884
			US-PATENT-APPL-SN-146940				US-PATENT-CLASS-313-104		N73-32415*	c 17	NASA-CASE-LEW-10436-1
			US-PATENT-CLASS-137-535				US-PATENT-3,758,781				US-PATENT-APPL-SN-221093
			US-PATENT-CLASS-272-DIG.1				NASA-CASE-KSC-10730-1				US-PATENT-CLASS-73-170
			US-PATENT-CLASS-272-DIG.4				US-PATENT-APPL-SN-248469				US-PATENT-CLASS-75-171
			US-PATENT-CLASS-272-DIG.5				US-PATENT-CLASS-324-72				US-PATENT-3,762,918
			US-PATENT-CLASS-272-79C				US-PATENT-3,760,268		N73-32437*	c 18	NASA-CASE-MFS-20861-1
			US-PATENT-CLASS-91-186				NASA-CASE-KSC-10728-1				US-PATENT-APPL-SN-160860
			US-PATENT-3,758,112				US-PATENT-APPL-SN-292682				US-PATENT-CLASS-75-135
N73-32015*	c 05		NASA-CASE-MSC-13436-1				US-PATENT-CLASS-95-11				US-PATENT-3,752,665
			US-PATENT-APPL-SN-173190				US-PATENT-CLASS-95-11.5				NASA-CASE-XLE-00209
			US-PATENT-CLASS-128-2.07				US-PATENT-3,759,152		N73-32528*	c 22	US-PATENT-APPL-SN-60276
			US-PATENT-CLASS-128-2.08				NASA-CASE-GSC-11188-1				US-PATENT-CLASS-176-169
			US-PATENT-CLASS-73-194E				US-PATENT-APPL-SN-244440				US-PATENT-3,759,787
			US-PATENT-CLASS-73-194M				US-PATENT-APPL-SN-80029		N73-32571*	c 26	NASA-CASE-LEW-11015
			US-PATENT-3,759,249				US-PATENT-CLASS-29-195Y				US-PATENT-APPL-SN-235266
N73-32029*	c 06		NASA-CASE-NPO-10998-1				US-PATENT-3,759,672				US-PATENT-CLASS-174-DIG.6
			NASA-CASE-NPO-10999-1				NASA-CASE-XNP-05530				US-PATENT-CLASS-174-126CP
			US-PATENT-APPL-SN-145027				NASA-CASE-XNP-06933				US-PATENT-CLASS-29-599
			US-PATENT-CLASS-252-431N				US-PATENT-APPL-SN-488381				US-PATENT-CLASS-335-216
			US-PATENT-CLASS-252-431R				US-PATENT-CLASS-73-81		N73-32606*	c 28	US-PATENT-3,763,552
			US-PATENT-CLASS-260-47UP				US-PATENT-3,379,052				NASA-CASE-NPO-12070-1
			US-PATENT-CLASS-260-567.6M				NASA-CASE-LAR-10319-1				US-PATENT-APPL-SN-153542
			US-PATENT-CLASS-260-93.5A				US-PATENT-APPL-SN-197870				US-PATENT-CLASS-165-105
			US-PATENT-CLASS-260-93.5S				US-PATENT-CLASS-346-110				US-PATENT-CLASS-165-141
			US-PATENT-CLASS-260-94.2M				US-PATENT-CLASS-95-42				US-PATENT-CLASS-165-185
			US-PATENT-CLASS-260-94.2R				US-PATENT-3,757,659				US-PATENT-CLASS-239-127.1
			US-PATENT-CLASS-260-94.7R				NASA-CASE-LAR-10440-1				US-PATENT-CLASS-60-267
			US-PATENT-3,755,283				US-PATENT-APPL-SN-229413		N73-32749*	c 31	US-PATENT-3,759,443
N73-32030*	c 06		NASA-CASE-MFS-20979-2				US-PATENT-CLASS-73-103				NASA-CASE-ERC-10365-1
			US-PATENT-APPL-SN-100774				US-PATENT-CLASS-73-94				US-PATENT-APPL-SN-99198
			US-PATENT-APPL-SN-219590				US-PATENT-3,757,568				US-PATENT-CLASS-287-92
			US-PATENT-CLASS-260-448.2D				NASA-CASE-LAR-02743				US-PATENT-CLASS-52-109
			US-PATENT-3,763,204				US-PATENT-APPL-SN-404212				US-PATENT-CLASS-52-64
N73-32081*	c 08		NASA-CASE-MSC-12458-1				US-PATENT-CLASS-313-7				US-PATENT-CLASS-52-646
			US-PATENT-APPL-SN-188927				US-PATENT-3,310,699				US-PATENT-CLASS-52-80
			US-PATENT-CLASS-235-152IE				NASA-CASE-XNP-04231				US-PATENT-3,757,476
			US-PATENT-CLASS-340-347DA				US-PATENT-APPL-SN-362261		N73-32750*	c 31	NASA-CASE-LEW-11101-1
			US-PATENT-3,754,236				US-PATENT-CLASS-250-41.9				US-PATENT-APPL-SN-175983
N73-32107*	c 09		NASA-CASE-MFS-20207-1				US-PATENT-3,334,225				US-PATENT-CLASS-244-1SC
			US-PATENT-APPL-SN-239574				NASA-CASE-ARC-10362-1				US-PATENT-CLASS-244-1SS
			US-PATENT-CLASS-318-254				US-PATENT-APPL-SN-198289				US-PATENT-CLASS-47-1.4
			US-PATENT-CLASS-318-328				US-PATENT-CLASS-128-2.05F				US-PATENT-CLASS-47-17
			US-PATENT-3,757,183				US-PATENT-CLASS-73-194EM		N73-32818*	c 33	US-PATENT-3,749,332
N73-32108*	c 09		NASA-CASE-GSC-11368-1				US-PATENT-3,751,980				NASA-CASE-NPO-11942-1
			US-PATENT-APPL-SN-237029				NASA-CASE-LAR-10483-1				US-PATENT-APPL-SN-266866
			US-PATENT-CLASS-136-24				US-PATENT-APPL-SN-184090				US-PATENT-CLASS-165-106
			US-PATENT-3,759,746				US-PATENT-CLASS-73-12				US-PATENT-CLASS-165-32
N73-32109*	c 09		NASA-CASE-GSC-11394-1				US-PATENT-CLASS-73-170R				US-PATENT-CLASS-165-96
			US-PATENT-APPL-SN-292698				US-PATENT-3,763,691				US-PATENT-CLASS-244-1SS
			US-PATENT-CLASS-136-89				NASA-CASE-LEW-11388-1		N73-33076*	c 06	US-PATENT-3,763,928
			US-PATENT-CLASS-250-212				US-PATENT-APPL-SN-289033				NASA-CASE-NPO-10767-1
			US-PATENT-CLASS-321-1.5				US-PATENT-CLASS-219-117				US-PATENT-APPL-SN-241061
			US-PATENT-3,760,257				US-PATENT-CLASS-219-91				US-PATENT-APPL-SN-770417
N73-32110*	c 09		NASA-CASE-KSC-10729-1				US-PATENT-CLASS-29-497				US-PATENT-CLASS-260-77.5AP
			US-PATENT-APPL-SN-221714				US-PATENT-3,758,747				US-PATENT-3,755,265
			US-PATENT-CLASS-343-112R				NASA-CASE-LEW-11152-1		N73-33361*	c 14	NASA-CASE-ARC-10468-1
			US-PATENT-CLASS-343-113R				US-PATENT-APPL-SN-198379				US-PATENT-APPL-SN-288857
			US-PATENT-3,754,263				US-PATENT-CLASS-308-35				US-PATENT-CLASS-355-18
N73-32111*	c 09		NASA-CASE-ARC-10463-1				US-PATENT-CLASS-308-9				US-PATENT-CLASS-95-12
			US-PATENT-APPL-SN-241615				US-PATENT-3,759,588				US-PATENT-3,764,209
			US-PATENT-CLASS-331-94.5				NASA-CASE-GSC-11163-1		N73-33383*	c 15	NASA-CASE-LEW-11026-1
			US-PATENT-3,753,148				US-PATENT-APPL-SN-205047				US-PATENT-APPL-SN-196970
N73-32112*	c 09		NASA-CASE-ARC-10330-1				US-PATENT-CLASS-117-105				US-PATENT-CLASS-29-487
			US-PATENT-APPL-SN-151412				US-PATENT-CLASS-117-105.5				US-PATENT-CLASS-29-494
			US-PATENT-CLASS-317-235R				US-PATENT-CLASS-117-130R				US-PATENT-CLASS-29-497.5
			US-PATENT-CLASS-317-235WW				US-PATENT-CLASS-117-138.8R				US-PATENT-CLASS-29-498

N73-33397*	c 16	US-PATENT-3,748,722	N74-11284*	c 35	US-PATENT-CLASS-178-6.6DD	N74-13011*	c 46	US-PATENT-CLASS-317-234R
		NASA-CASE-ARC-10444-1			US-PATENT-CLASS-179-100.2MD			US-PATENT-3,778,685
		US-PATENT-APPL-SN-167719			US-PATENT-CLASS-179-100.2T			NASA-CASE-MSC-12408-1
		US-PATENT-CLASS-331-94.5A			US-PATENT-CLASS-340-174.1L			US-PATENT-APPL-SN-229916
		US-PATENT-CLASS-350-285			US-PATENT-3,770,903			US-PATENT-CLASS-423-579
		US-PATENT-CLASS-356-138			NASA-CASE-NPO-11919-1			US-PATENT-3,773,913
		US-PATENT-CLASS-356-148			US-PATENT-APPL-SN-237694	N74-13129*	c 35	NASA-CASE-FRC-10051-1
		US-PATENT-CLASS-356-153			US-PATENT-CLASS-250-343			US-PATENT-APPL-SN-253725
		US-PATENT-CLASS-356-172			US-PATENT-3,766,380			US-PATENT-CLASS-254-93R
		US-PATENT-3,764,220			NASA-CASE-LEW-10533-2			US-PATENT-CLASS-73-88R
N74-10034*	c 02	NASA-CASE-LAR-10776-1			US-PATENT-APPL-SN-247055			US-PATENT-3,776,028
		US-PATENT-APPL-SN-211332			US-PATENT-CLASS-219-101	N74-13130*	c 91	NASA-CASE-NPO-12127-1
		US-PATENT-CLASS-244-145			US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-106106
		US-PATENT-3,764,097			US-PATENT-CLASS-219-78			US-PATENT-CLASS-250-219DF
N74-10132*	c 32	NASA-CASE-NPO-11302-2			US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-250-83CD
		US-PATENT-APPL-SN-266822			US-PATENT-3,770,933			US-PATENT-3,752,996
		US-PATENT-APPL-SN-70967			NASA-CASE-LAR-10170-1	N74-13131*	c 39	NASA-CASE-MFS-20730-1
		US-PATENT-CLASS-178-69.4R			US-PATENT-APPL-SN-217213			US-PATENT-APPL-SN-182977
		US-PATENT-3,766,315			US-PATENT-CLASS-117-105.2			US-PATENT-CLASS-269-48.1
N74-10194*	c 33	NASA-CASE-NPO-11962-1			US-PATENT-CLASS-29-460			US-PATENT-CLASS-83-452
		US-PATENT-APPL-SN-292681			US-PATENT-CLASS-29-498			US-PATENT-CLASS-83-602
		US-PATENT-CLASS-331-1A			US-PATENT-CLASS-29-503			US-PATENT-CLASS-83-917
		US-PATENT-CLASS-331-14			US-PATENT-CLASS-29-527.2			US-PATENT-3,777,605
		US-PATENT-CLASS-331-17			US-PATENT-3,769,689	N74-13132*	c 35	NASA-CASE-LAR-10910-1
		US-PATENT-CLASS-331-178			NASA-CASE-HON-10790-1			US-PATENT-APPL-SN-239577
		US-PATENT-CLASS-331-18			US-PATENT-APPL-SN-235962			US-PATENT-CLASS-73-4R
		US-PATENT-CLASS-331-4			US-PATENT-CLASS-333-83R			US-PATENT-CLASS-73-420
		US-PATENT-3,764,933			US-PATENT-CLASS-333-97R			US-PATENT-3,777,546
N74-10195*	c 33	NASA-CASE-LEW-11617-1			US-PATENT-3,771,074	N74-13177*	c 31	NASA-CASE-LAR-10547-1
		US-PATENT-APPL-SN-266832			NASA-CASE-MFS-20284-1			US-PATENT-APPL-SN-193980
		US-PATENT-CLASS-315-5.35			US-PATENT-APPL-SN-242027			US-PATENT-CLASS-264-294
		US-PATENT-CLASS-315-5.38			US-PATENT-CLASS-128-2.05T			US-PATENT-3,772,418
		US-PATENT-3,764,850			US-PATENT-CLASS-128-2.06F			NASA-CASE-LAR-10544-1
N74-10223*	c 33	NASA-CASE-LAR-10730-1			US-PATENT-CLASS-324-186	N74-13178*	c 37	US-PATENT-APPL-SN-188928
		US-PATENT-APPL-SN-239573			US-PATENT-CLASS-324-78D			US-PATENT-CLASS-222-193
		US-PATENT-CLASS-235-150.3			US-PATENT-3,773,038			US-PATENT-3,776,432
		US-PATENT-CLASS-235-92CA			NASA-CASE-MFS-21115-1	N74-13179*	c 37	NASA-CASE-LEW-10805-2
		US-PATENT-CLASS-235-92DM			US-PATENT-APPL-SN-266930			US-PATENT-APPL-SN-233743
		US-PATENT-CLASS-307-225R			US-PATENT-CLASS-222-309			US-PATENT-APPL-SN-29917
		US-PATENT-CLASS-328-48			US-PATENT-CLASS-222-340			US-PATENT-CLASS-29-182
		US-PATENT-3,764,790			US-PATENT-CLASS-222-387			US-PATENT-CLASS-29-420.5
N74-10415*	c 35	NASA-CASE-MFS-20335-1			US-PATENT-CLASS-222-514			US-PATENT-CLASS-75-200
		US-PATENT-APPL-SN-238263			US-PATENT-3,777,942			US-PATENT-CLASS-75-213
		US-PATENT-CLASS-73-67.8S			NASA-CASE-ARC-10464-1			US-PATENT-CLASS-75-214
		US-PATENT-3,765,229			US-PATENT-APPL-SN-198472			US-PATENT-CLASS-75-226
N74-10474*	c 37	NASA-CASE-LEW-10326-3			US-PATENT-CLASS-260-2.5AM			US-PATENT-3,775,101
		US-PATENT-APPL-SN-99901			US-PATENT-3,772,216	N74-13205*	c 36	NASA-CASE-NPO-11317-2
		US-PATENT-CLASS-277-25			NASA-CASE-LAR-10551-1			US-PATENT-APPL-SN-187143
		US-PATENT-CLASS-277-27			US-PATENT-APPL-SN-191301			US-PATENT-APPL-SN-34989
		US-PATENT-CLASS-277-96			US-PATENT-CLASS-128-191R			US-PATENT-CLASS-179-100.2CH
		US-PATENT-3,767,212			US-PATENT-CLASS-23-252R			US-PATENT-CLASS-250-205
N74-10521*	c 26	NASA-CASE-LEW-10805-3			US-PATENT-CLASS-23-281			US-PATENT-CLASS-250-217
		US-PATENT-APPL-SN-266928			US-PATENT-CLASS-23-288F			US-PATENT-CLASS-340-174.1M
		US-PATENT-APPL-SN-29917			US-PATENT-CLASS-23-288J			US-PATENT-CLASS-340-174YC
		US-PATENT-CLASS-148-126			US-PATENT-CLASS-423-231			US-PATENT-CLASS-350-151
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-55-510			US-PATENT-3,778,791
		US-PATENT-CLASS-75-200			US-PATENT-CLASS-55-518	N74-13270*	c 27	NASA-CASE-LEW-11262-1
		US-PATENT-CLASS-75-226			US-PATENT-3,771,959			US-PATENT-APPL-SN-136008
		US-PATENT-3,765,958			NASA-CASE-ARC-10180-1			US-PATENT-CLASS-204-192
N74-10907*	c 05	NASA-CASE-XMF-02263			US-PATENT-APPL-SN-136253			US-PATENT-3,772,174
		US-PATENT-APPL-SN-78766			US-PATENT-CLASS-260-2.5L	N74-13420*	c 04	NASA-CASE-FRC-10049-1
		US-PATENT-CLASS-D71-1			US-PATENT-3,772,220			US-PATENT-APPL-SN-232021
		US-PATENT-DES-228,688			NASA-CASE-NPO-11905-1			US-PATENT-CLASS-235-150.27
N74-10942*	c 08	NASA-CASE-MSC-12394-1			US-PATENT-APPL-SN-290030			US-PATENT-CLASS-235-150.22
		US-PATENT-APPL-SN-341662			US-PATENT-CLASS-178-88			US-PATENT-CLASS-235-150.26
		US-PATENT-CLASS-244-83			US-PATENT-CLASS-325-320			US-PATENT-CLASS-244-77A
		US-PATENT-CLASS-318-580			US-PATENT-CLASS-329-104			US-PATENT-CLASS-244-77B
		US-PATENT-CLASS-318-628			US-PATENT-CLASS-329-122			US-PATENT-CLASS-343-108R
		US-PATENT-3,771,037			US-PATENT-CLASS-329-126			US-PATENT-3,776,455
N74-10975*	c 52	NASA-CASE-MSC-13972-1			US-PATENT-3,772,272	N74-13436*	c 70	NASA-CASE-LAR-10385-2
		US-PATENT-APPL-SN-200040			NASA-CASE-MSC-14053-1			US-PATENT-APPL-SN-239803
		US-PATENT-CLASS-128-2S			US-PATENT-APPL-SN-266899			US-PATENT-APPL-SN-38816
		US-PATENT-CLASS-73-149			US-PATENT-CLASS-328-123			US-PATENT-CLASS-117-106A
		US-PATENT-3,769,834			US-PATENT-CLASS-340-173CR			US-PATENT-CLASS-117-33.3
N74-11000*	c 32	NASA-CASE-NPO-13171-1			US-PATENT-CLASS-340-173LM			US-PATENT-3,779,788
		US-PATENT-APPL-SN-290915			US-PATENT-3,778,786	N74-13502*	c 20	NASA-CASE-LEW-11058-1
		US-PATENT-CLASS-343-781			NASA-CASE-NPO-11850-1			US-PATENT-APPL-SN-233519
		US-PATENT-CLASS-343-909			US-PATENT-APPL-SN-188700			US-PATENT-CLASS-60-258
		US-PATENT-3,769,623			US-PATENT-CLASS-343-18B			US-PATENT-CLASS-60-259
N74-11049*	c 33	NASA-CASE-HON-10792-1			US-PATENT-CLASS-343-6.5R			US-PATENT-3,777,490
		US-PATENT-APPL-SN-245063			US-PATENT-CLASS-343-6.5SS	N74-14133*	c 31	NASA-CASE-LAR-10782-1
		US-PATENT-CLASS-321-18			US-PATENT-3,772,691			US-PATENT-APPL-SN-197689
		US-PATENT-CLASS-321-2			NASA-CASE-LEW-11162-1			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-321-45S			US-PATENT-APPL-SN-143508			US-PATENT-3,780,151
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-313-153	N74-14784*	c 44	NASA-CASE-LEW-11069-1
		US-PATENT-CLASS-331-113A			US-PATENT-CLASS-313-209			US-PATENT-APPL-SN-83816
		US-PATENT-CLASS-331-62			US-PATENT-CLASS-313-217			US-PATENT-CLASS-136-89
		US-PATENT-3,771,040			US-PATENT-CLASS-313-224			US-PATENT-CLASS-29-572
N74-11050*	c 33	NASA-CASE-LAR-10868-1			US-PATENT-CLASS-313-32			US-PATENT-CLASS-29-588
		US-PATENT-APPL-SN-253249			US-PATENT-3,777,200			US-PATENT-3,780,424
		US-PATENT-CLASS-137-819			NASA-CASE-MFS-21374-1	N74-14845*	c 54	NASA-CASE-LAR-10241-1
		US-PATENT-CLASS-137-833			US-PATENT-APPL-SN-238047			US-PATENT-APPL-SN-193672
		US-PATENT-CLASS-137-840			US-PATENT-CLASS-317-234E			US-PATENT-CLASS-9-11A
		US-PATENT-3,770,021			US-PATENT-CLASS-317-234F			US-PATENT-3,781,933
N74-11283*	c 35	NASA-CASE-NPO-11659-1			US-PATENT-CLASS-317-234M	N74-14920*	c 62	NASA-CASE-MSC-13932-1
		US-PATENT-APPL-SN-228189			US-PATENT-CLASS-317-234N			US-PATENT-APPL-SN-229354

		US-PATENT-CLASS-235-153AK US-PATENT-3,783,250				US-PATENT-CLASS-73-67.8S US-PATENT-3,777,552				US-PATENT-APPL-SN-201700 US-PATENT-CLASS-324-102
N74-14935*	c 33	NASA-CASE-MFS-21462-1 US-PATENT-APPL-SN-239576 US-PATENT-CLASS-219-477 US-PATENT-CLASS-219-539 US-PATENT-CLASS-338-320 US-PATENT-3,732,397	N74-15145*	c 36	NASA-CASE-NPO-11856-1 US-PATENT-APPL-SN-235268 US-PATENT-CLASS-250-217SS US-PATENT-CLASS-331-94.5K US-PATENT-CLASS-331-94.5S US-PATENT-CLASS-350-6 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-4 US-PATENT-CLASS-356-5 US-PATENT-3,781,111	N74-17955*	c 09	NASA-CASE-LAR-10812-1 US-PATENT-APPL-SN-263815 US-PATENT-CLASS-73-147 US-PATENT-3,791,207		
N74-14939*	c 33	NASA-CASE-FRC-10072-1 US-PATENT-APPL-SN-162100 US-PATENT-CLASS-330-10 US-PATENT-CLASS-330-35 US-PATENT-CLASS-330-9 US-PATENT-3,783,399	N74-15146*	c 35	NASA-CASE-MFS-21455-1 US-PATENT-APPL-SN-281877 US-PATENT-CLASS-350-3.5 US-PATENT-CLASS-356-106 US-PATENT-CLASS-73-71.3 US-PATENT-3,782,825	N74-18088*	c 35	NASA-CASE-LAR-11027-1 US-PATENT-APPL-SN-275118 US-PATENT-CLASS-250-338 US-PATENT-CLASS-250-370 US-PATENT-CLASS-250-371 US-PATENT-3,790,795		
N74-14956*	c 33	NASA-CASE-MS-17832-1 US-PATENT-APPL-SN-293727 US-PATENT-CLASS-307-127 US-PATENT-CLASS-317-33SC US-PATENT-CLASS-317-43 US-PATENT-CLASS-317-46 US-PATENT-CLASS-317-47 US-PATENT-CLASS-317-48 US-PATENT-3,783,354	N74-15395*	c 38	NASA-CASE-MFS-21233-1 US-PATENT-APPL-SN-246056 US-PATENT-CLASS-324-40 US-PATENT-CLASS-73-67.5R US-PATENT-CLASS-73-71.5U US-PATENT-3,782,177	N74-18089*	c 31	NASA-CASE-LAR-10318-1 US-PATENT-APPL-SN-224489 US-PATENT-CLASS-156-245 US-PATENT-CLASS-156-247 US-PATENT-CLASS-156-285 US-PATENT-CLASS-156-309 US-PATENT-3,793,109		
N74-15089*	c 19	NASA-CASE-LAR-10586-1 US-PATENT-APPL-SN-289049 US-PATENT-CLASS-102-70.2R US-PATENT-CLASS-244-15A US-PATENT-CLASS-244-3.16 US-PATENT-CLASS-250-203R US-PATENT-CLASS-250-237R US-PATENT-3,780,966	N74-15453*	c 07	NASA-CASE-LEW-11569-1 US-PATENT-APPL-SN-316618 US-PATENT-CLASS-181-43 US-PATENT-3,780,827	N74-18090*	c 35	NASA-CASE-NPO-13160-1 US-PATENT-APPL-SN-359157 US-PATENT-CLASS-321-8R US-PATENT-CLASS-324-57R US-PATENT-3,795,858		
N74-15090*	c 35	NASA-CASE-NPO-11432-2 US-PATENT-APPL-SN-258152 US-PATENT-APPL-SN-88435 US-PATENT-CLASS-250-211J US-PATENT-CLASS-250-214 US-PATENT-CLASS-317-235N US-PATENT-3,781,549	N74-15652*	c 34	NASA-CASE-LAR-10105-1 US-PATENT-APPL-SN-170680 US-PATENT-CLASS-73-86 US-PATENT-3,782,181	N74-18123*	c 37	NASA-CASE-LAR-10634-1 US-PATENT-APPL-SN-214084 US-PATENT-CLASS-23-253PC US-PATENT-CLASS-23-259 US-PATENT-CLASS-259-72 US-PATENT-CLASS-312-209 US-PATENT-CLASS-356-197 US-PATENT-CLASS-356-85 US-PATENT-3,790,347		
N74-15091*	c 35	NASA-CASE-LAR-11155-1 US-PATENT-APPL-SN-313381 US-PATENT-CLASS-250-360 US-PATENT-CLASS-250-361 US-PATENT-CLASS-250-369 US-PATENT-CLASS-250-492 US-PATENT-3,781,562	N74-15778*	c 51	NASA-CASE-ARC-10302-1 US-PATENT-APPL-SN-203271 US-PATENT-CLASS-119-51.13 US-PATENT-CLASS-119-51.5 US-PATENT-CLASS-119-51R US-PATENT-CLASS-119-52AF US-PATENT-CLASS-119-54 US-PATENT-CLASS-221-265 US-PATENT-3,782,334	N74-18124*	c 31	NASA-CASE-LAR-10489-1 US-PATENT-APPL-SN-198763 US-PATENT-CLASS-264-102 US-PATENT-3,790,650		
N74-15092*	c 35	NASA-CASE-LAR-10862-1 US-PATENT-APPL-SN-271951 US-PATENT-CLASS-73-4V US-PATENT-3,780,563	N74-15831*	c 35	NASA-CASE-GSC-11553-1 US-PATENT-APPL-SN-177985 US-PATENT-CLASS-178-6.7R US-PATENT-CLASS-219-216 US-PATENT-CLASS-219-388 US-PATENT-CLASS-34-162 US-PATENT-CLASS-346-108 US-PATENT-CLASS-346-138 US-PATENT-CLASS-346-24 US-PATENT-CLASS-95-89R US-PATENT-3,781,902	N74-18125*	c 37	NASA-CASE-MFS-21309-1 US-PATENT-APPL-SN-244519 US-PATENT-CLASS-180-79.3 US-PATENT-CLASS-301-5P US-PATENT-3,789,947		
N74-15093*	c 35	NASA-CASE-ARC-10442-1 US-PATENT-APPL-SN-280032 US-PATENT-CLASS-165-109 US-PATENT-CLASS-165-2 US-PATENT-CLASS-259-DIG.18 US-PATENT-CLASS-259-60 US-PATENT-CLASS-62-45 US-PATENT-3,782,698	N74-16135*	c 35	NASA-CASE-LAR-10595-1 US-PATENT-APPL-SN-273240 US-PATENT-CLASS-340-12R US-PATENT-CLASS-340-5R US-PATENT-CLASS-340-8R US-PATENT-3,783,443	N74-18126*	c 37	NASA-CASE-MFS-21364-1 US-PATENT-APPL-SN-214006 US-PATENT-CLASS-156-331 US-PATENT-CLASS-161-182 US-PATENT-CLASS-161-192 US-PATENT-CLASS-161-42 US-PATENT-CLASS-161-43 US-PATENT-CLASS-161-93 US-PATENT-CLASS-260-2R US-PATENT-CLASS-264-135 US-PATENT-CLASS-264-136 US-PATENT-CLASS-264-257 US-PATENT-3,790,432		
N74-15094*	c 35	NASA-CASE-NPO-13044-1 US-PATENT-APPL-SN-305012 US-PATENT-CLASS-73-497 US-PATENT-CLASS-73-517B US-PATENT-CLASS-74-5.6 US-PATENT-3,782,205	N74-17153*	c 35	NASA-CASE-MFS-21087-1 US-PATENT-APPL-SN-149283 US-PATENT-CLASS-350-3.5 US-PATENT-3,752,556	N74-18127*	c 37	NASA-CASE-MFS-21481-1 US-PATENT-APPL-SN-266771 US-PATENT-CLASS-128-25R US-PATENT-CLASS-272-73 US-PATENT-CLASS-272-80 US-PATENT-CLASS-74-594.6 US-PATENT-CLASS-74-594.7 US-PATENT-3,788,163		
N74-15095*	c 74	NASA-CASE-MS-14096-1 US-PATENT-APPL-SN-242662 US-PATENT-CLASS-350-236 US-PATENT-CLASS-350-285 US-PATENT-CLASS-350-7 US-PATENT-CLASS-356-216 US-PATENT-CLASS-356-43 US-PATENT-3,782,835	N74-17283*	c 27	NASA-CASE-MFS-20486-2 US-PATENT-APPL-SN-292382 US-PATENT-APPL-SN-84212 US-PATENT-CLASS-260-29.6S US-PATENT-3,784,499	N74-18128*	c 37	NASA-CASE-LEW-11387-1 US-PATENT-APPL-SN-247090 US-PATENT-CLASS-29-482 US-PATENT-CLASS-29-488 US-PATENT-CLASS-29-497 US-PATENT-CLASS-29-498 US-PATENT-3,787,959		
N74-15125*	c 37	NASA-CASE-XLE-10326-4 US-PATENT-APPL-SN-220251 US-PATENT-APPL-SN-54540 US-PATENT-APPL-SN-723465 US-PATENT-CLASS-277-27 US-PATENT-CLASS-277-91 US-PATENT-3,782,737	N74-17853*	c 54	NASA-CASE-MFS-21163-1 US-PATENT-APPL-SN-266925 US-PATENT-CLASS-222-324 US-PATENT-CLASS-224-444 US-PATENT-3,790,037	N74-18323*	c 35	NASA-CASE-MFS-21136-1 US-PATENT-APPL-SN-262430 US-PATENT-CLASS-308-10 US-PATENT-CLASS-74-5.7 US-PATENT-3,763,708		
N74-15126*	c 35	NASA-CASE-ARC-10441-1 US-PATENT-APPL-SN-280029 US-PATENT-CLASS-259-98 US-PATENT-CLASS-417-470 US-PATENT-CLASS-417-471 US-PATENT-3,782,699	N74-17885*	c 35	NASA-CASE-MS-13855-1 US-PATENT-APPL-SN-196931 US-PATENT-CLASS-325-38B US-PATENT-CLASS-332-11D US-PATENT-CLASS-340-347AD US-PATENT-3,795,900	N74-18551*	c 25	NASA-CASE-LAR-11053-1 US-PATENT-APPL-SN-281875 US-PATENT-CLASS-73-15R US-PATENT-3,789,654		
N74-15127*	c 35	NASA-CASE-NPO-11682-1 US-PATENT-APPL-SN-187365 US-PATENT-CLASS-23-284 US-PATENT-3,782,904	N74-17927*	c 33	NASA-CASE-NPO-13138-1 US-PATENT-APPL-SN-335201 US-PATENT-CLASS-328-155 US-PATENT-CLASS-333-16 US-PATENT-CLASS-333-18 US-PATENT-3,790,906	N74-18552*	c 34	NASA-CASE-NPO-11120-1 US-PATENT-APPL-SN-39343 US-PATENT-CLASS-165-105 US-PATENT-CLASS-267-166 US-PATENT-CLASS-29-157.3R US-PATENT-3,789,920		
N74-15128*	c 37	NASA-CASE-LEW-11087-2 US-PATENT-APPL-SN-201904 US-PATENT-APPL-SN-280390 US-PATENT-CLASS-29-148.4A US-PATENT-CLASS-29-148.4B US-PATENT-3,781,958	N74-17928*	c 33	NASA-CASE-NPO-11966-1 NASA-CASE-NPO-13159-1 US-PATENT-APPL-SN-284245 US-PATENT-CLASS-100-8 US-PATENT-CLASS-336-210 US-PATENT-3,792,399	N74-19310*	c 72	NASA-CASE-HQN-10740-1 US-PATENT-APPL-SN-266943 US-PATENT-CLASS-356-106R US-PATENT-CLASS-356-112 US-PATENT-CLASS-356-28 US-PATENT-3,795,448		
N74-15130*	c 38	NASA-CASE-MFS-20767-1 US-PATENT-APPL-SN-196898	N74-17929*	c 33	NASA-CASE-ARC-10197-1 US-PATENT-APPL-SN-310624 US-PATENT-CLASS-317-16 US-PATENT-CLASS-317-31 US-PATENT-3,795,870	N74-19528*	c 09	NASA-CASE-LAR-10426-1 US-PATENT-APPL-SN-239575		
N74-17930*	c 33	NASA-CASE-NUC-10107-1								

		US-PATENT-CLASS-73-15.6	N74-20813*	c 32	NASA-CASE-FRC-10071-1		US-PATENT-3,797,098
		US-PATENT-CLASS-73-91			US-PATENT-APPL-SN-307727	N74-21058*	c 37
		US-PATENT-3,795,134			US-PATENT-CLASS-178-7.7		NASA-CASE-MFS-22411-1
N74-19692*	c 44	NASA-CASE-GSC-11367-1			US-PATENT-CLASS-315-18		US-PATENT-APPL-SN-382262
		US-PATENT-APPL-SN-236985			US-PATENT-CLASS-315-22		US-PATENT-CLASS-260-448.2N
		US-PATENT-CLASS-136-36			US-PATENT-3,803,445		US-PATENT-3,801,617
		US-PATENT-3,759,747	N74-20836*	c 60	NASA-CASE-ERC-10180-1	N74-21059*	c 31
		NASA-CASE-NPO-11806-1			US-PATENT-APPL-SN-838278		NASA-CASE-LAR-10409-1
N74-19693*	c 44	US-PATENT-APPL-SN-228163			US-PATENT-CLASS-235-164		US-PATENT-APPL-SN-340864
		US-PATENT-CLASS-136-20			US-PATENT-3,803,393		US-PATENT-CLASS-29-423
		US-PATENT-CLASS-136-30	N74-20859*	c 33	NASA-CASE-XLE-2529-3	N74-21060*	c 37
		US-PATENT-3,790,409			US-PATENT-APPL-SN-288856		NASA-CASE-NPO-13105-1
N74-19769*	c 24	NASA-CASE-ERC-10073-1			US-PATENT-APPL-SN-487929		US-PATENT-APPL-SN-283502
		US-PATENT-APPL-SN-856253			US-PATENT-APPL-SN-848403		US-PATENT-CLASS-60-25
		US-PATENT-CLASS-117-95			US-PATENT-CLASS-315-211	N74-21061*	c 37
		US-PATENT-3,796,592			US-PATENT-CLASS-315-228		NASA-CASE-LEW-11076-1
N74-19788*	c 32	NASA-CASE-NPO-11820-1			US-PATENT-CLASS-331-94.5D		US-PATENT-APPL-SN-238264
		US-PATENT-APPL-SN-266912			US-PATENT-CLASS-332-7.51		US-PATENT-CLASS-308-73
		US-PATENT-CLASS-307-237			US-PATENT-3,806,835	N74-21062*	c 35
		US-PATENT-CLASS-328-160	N74-20860*	c 33	NASA-CASE-GSC-11446-1		NASA-CASE-LAR-10295-1
		US-PATENT-CLASS-328-168			US-PATENT-APPL-SN-263230		US-PATENT-APPL-SN-221685
		US-PATENT-CLASS-328-172			US-PATENT-CLASS-343-DIG.2		US-PATENT-CLASS-73-12
		US-PATENT-CLASS-333-14			US-PATENT-CLASS-343-100SA		US-PATENT-CLASS-73-432
N74-19790*	c 32	US-PATENT-3,800,237			US-PATENT-CLASS-343-100ST		US-PATENT-3,805,622
		NASA-CASE-MFS-21540-1			US-PATENT-CLASS-343-854	N74-21063*	c 37
		US-PATENT-APPL-SN-333912			US-PATENT-3,806,932		NASA-CASE-LEW-10698-1
		US-PATENT-CLASS-178-7.1	N74-20861*	c 33	NASA-CASE-GSC-11560-1		US-PATENT-APPL-SN-30498
		US-PATENT-CLASS-325-148			US-PATENT-APPL-SN-361906		US-PATENT-CLASS-106-52
		US-PATENT-3,800,224			US-PATENT-CLASS-350-269		US-PATENT-CLASS-117-129
N74-19870*	c 44	NASA-CASE-MFS-21470-1			US-PATENT-CLASS-354-234	N74-21064*	c 37
		US-PATENT-APPL-SN-340871			US-PATENT-CLASS-95-53EA		NASA-CASE-LEW-11087-3
		US-PATENT-CLASS-325-62			US-PATENT-3,804,506		US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-333-17	N74-20862*	c 33	NASA-CASE-GSC-11513-1		US-PATENT-APPL-SN-346361
		US-PATENT-CLASS-343-17.7			US-PATENT-APPL-SN-315069		US-PATENT-CLASS-308-188
		US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-331-108A		US-PATENT-CLASS-308-191
		US-PATENT-3,795,910			US-PATENT-CLASS-331-115	N74-21065*	c 37
N74-20008*	c 74	NASA-CASE-GSC-11188-3			US-PATENT-CLASS-331-116R		NASA-CASE-NPO-11951-1
		US-PATENT-APPL-SN-244566			US-PATENT-CLASS-331-159		US-PATENT-APPL-SN-287150
		US-PATENT-APPL-SN-80029			US-PATENT-3,806,831		US-PATENT-CLASS-137-628
		US-PATENT-CLASS-117-45	N74-20863*	c 32	NASA-CASE-GSC-11909		US-PATENT-CLASS-251-120
		US-PATENT-3,799,793			US-PATENT-APPL-SN-244158		US-PATENT-CLASS-251-122
N74-20009*	c 36	NASA-CASE-NPO-11861-1			US-PATENT-CLASS-343-730		US-PATENT-CLASS-251-210
		US-PATENT-APPL-SN-266911			US-PATENT-CLASS-343-786		US-PATENT-3,802,660
		US-PATENT-CLASS-178-DIG.1			US-PATENT-CLASS-343-797	N74-21091*	c 36
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-343-853		NASA-CASE-GSC-11262-1
		US-PATENT-CLASS-178-7.6			US-PATENT-3,803,617		US-PATENT-APPL-SN-162380
		US-PATENT-3,790,074	N74-20864*	c 32	NASA-CASE-GSC-11428-1		US-PATENT-CLASS-250-204
N74-20063*	c 37	NASA-CASE-LAR-10129-2			US-PATENT-APPL-SN-292685		US-PATENT-CLASS-33-285
		US-PATENT-APPL-SN-319410			US-PATENT-CLASS-343-708		US-PATENT-CLASS-356-141
		US-PATENT-APPL-SN-99201			US-PATENT-CLASS-343-769		US-PATENT-CLASS-356-152
		US-PATENT-CLASS-312-1			US-PATENT-CLASS-343-853		US-PATENT-CLASS-356-172
		US-PATENT-3,796,473			US-PATENT-3,805,266	N74-21156*	c 27
N74-20329*	c 76	NASA-CASE-GSC-11425-1	N74-21014*	c 71	NASA-CASE-HON-10832-1		NASA-CASE-ARC-10592-1
		US-PATENT-APPL-SN-206266			US-PATENT-APPL-SN-301417		US-PATENT-APPL-SN-321179
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-178-DIG.32		US-PATENT-CLASS-260-46.5E
		US-PATENT-3,799,813			US-PATENT-CLASS-178-5.8R	N74-21300*	c 70
N74-20646*	c 02	NASA-CASE-LEW-11188-1			US-PATENT-CLASS-178-7.2		US-PATENT-APPL-SN-267768
		US-PATENT-APPL-SN-152328			US-PATENT-CLASS-340-407		US-PATENT-CLASS-350-270
		US-PATENT-CLASS-137-15.1			US-PATENT-CLASS-35-35A		US-PATENT-CLASS-354-234
		US-PATENT-CLASS-137-15.2			US-PATENT-3,800,082		US-PATENT-3,797,919
		US-PATENT-CLASS-244-53B	N74-21015*	c 19	NASA-CASE-LAR-10626-1	N74-21304*	c 74
		US-PATENT-3,799,475			US-PATENT-APPL-SN-202750		NASA-CASE-GSC-11353-1
N74-20725*	c 54	NASA-CASE-MFS-22102-1			US-PATENT-CLASS-33-15A		US-PATENT-APPL-SN-260241
		US-PATENT-APPL-SN-341621			US-PATENT-CLASS-33-46R		US-PATENT-CLASS-250-231SE
		US-PATENT-CLASS-4-10			US-PATENT-3,798,778		US-PATENT-CLASS-350-299
		US-PATENT-CLASS-4-120			NASA-CASE-MFS-21660-1		US-PATENT-CLASS-356-152
		US-PATENT-3,805,303	N74-21017*	c 35	US-PATENT-APPL-SN-310616	N74-21850*	c 33
N74-20726*	c 52	NASA-CASE-ARC-10597-1			US-PATENT-CLASS-324-830		NASA-CASE-GSC-11602-1
		US-PATENT-APPL-SN-281876			US-PATENT-3,806,802		US-PATENT-APPL-SN-298157
		US-PATENT-CLASS-128-2V	N74-21018*	c 35	NASA-CASE-LEW-10981-1		US-PATENT-CLASS-315-10
		US-PATENT-CLASS-73-67.9			US-PATENT-APPL-SN-214089		US-PATENT-CLASS-315-11
		US-PATENT-3,802,253			US-PATENT-CLASS-310-11		US-PATENT-CLASS-315-12
N74-20728*	c 52	NASA-CASE-MFS-21415-1			US-PATENT-CLASS-324-34FL	N74-21851*	c 33
		US-PATENT-APPL-SN-318152			US-PATENT-CLASS-73-194EM		NASA-CASE-ARC-10596-1
		US-PATENT-CLASS-128-2.07			US-PATENT-3,802,262		US-PATENT-APPL-SN-267862
		US-PATENT-CLASS-128-2.08	N74-21019*	c 35	NASA-CASE-GSC-11600-1		US-PATENT-CLASS-330-28
		US-PATENT-CLASS-73-23			US-PATENT-APPL-SN-318357		US-PATENT-CLASS-330-59
		US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-73-1F	N74-22095*	c 35
		US-PATENT-3,799,149			US-PATENT-3,802,249		NASA-CASE-NPO-10617-1
N74-20809*	c 32	NASA-CASE-MSC-12462-1			NASA-CASE-LEW-11388-2		US-PATENT-APPL-SN-828920
		US-PATENT-APPL-SN-274360	N74-21055*	c 37	US-PATENT-APPL-SN-289033		US-PATENT-CLASS-73-190H
		US-PATENT-CLASS-178-88			US-PATENT-APPL-SN-293726		US-PATENT-3,648,516
		US-PATENT-CLASS-325-320			US-PATENT-CLASS-29-487	N74-22096*	c 32
		US-PATENT-CLASS-325-423			US-PATENT-CLASS-29-494		NASA-CASE-XLE-04791
		US-PATENT-3,800,227			US-PATENT-CLASS-29-498		US-PATENT-APPL-SN-582213
N74-20810*	c 32	NASA-CASE-MSC-12494-1			US-PATENT-CLASS-29-504		US-PATENT-CLASS-330-103
		US-PATENT-APPL-SN-304705			US-PATENT-3,798,748		US-PATENT-3,404,348
		US-PATENT-CLASS-325-321	N74-21056*	c 37	NASA-CASE-LAR-10688-1	N74-22136*	c 18
		US-PATENT-CLASS-325-419			US-PATENT-APPL-SN-285705		NASA-CASE-MFS-20922-1
		US-PATENT-3,806,816			US-PATENT-CLASS-235-151		US-PATENT-APPL-SN-220274
N74-20811*	c 32	NASA-CASE-NPO-13103-1			US-PATENT-CLASS-235-92PE		US-PATENT-CLASS-244-1SS
		US-PATENT-APPL-SN-338484			US-PATENT-CLASS-235-92SB		US-PATENT-CLASS-49-68
		US-PATENT-CLASS-325-320			US-PATENT-3,800,253		US-PATENT-CLASS-61-83
		US-PATENT-CLASS-325-419	N74-21057*	c 37	NASA-CASE-LAR-10941-1	N74-22771*	c 52
		US-PATENT-CLASS-329-122			US-PATENT-APPL-SN-289048		NASA-CASE-ARC-10447-1
		US-PATENT-3,806,815			US-PATENT-CLASS-29-470.1		US-PATENT-APPL-SN-311175
							US-PATENT-CLASS-128-214E
							US-PATENT-CLASS-235-151.3
							US-PATENT-3,809,871
						N74-22814*	c 33
							NASA-CASE-NPO-13081-1

				US-PATENT-APPL-SN-345372				US-PATENT-CLASS-178-67					US-PATENT-APPL-SN-326327
				US-PATENT-CLASS-307-215				US-PATENT-CLASS-325-30					US-PATENT-CLASS-136-182
				US-PATENT-CLASS-307-243				US-PATENT-3,816,657					US-PATENT-CLASS-324-29.5
				US-PATENT-CLASS-307-290		N74-26732*	c 33	NASA-CASE-MFS-21698-1					US-PATENT-CLASS-324-72.5
				US-PATENT-CLASS-328-154				US-PATENT-APPL-SN-37050		N74-27566*	c 52	NASA-CASE-GSC-11531-1	US-PATENT-3,818,325
N74-22864*	c 33			US-PATENT-3,808,464				US-PATENT-CLASS-331-109					US-PATENT-APPL-SN-291845
				NASA-CASE-XER-11046-2				US-PATENT-CLASS-331-117R					US-PATENT-CLASS-128-2.05E
				US-PATENT-APPL-SN-810579				US-PATENT-CLASS-331-183					US-PATENT-CLASS-73-398AR
				US-PATENT-APPL-SN-87597		N74-26767*	c 73	US-PATENT-3,815,048					US-PATENT-3,811,429
				US-PATENT-CLASS-321-45R				NASA-CASE-NPO-13112-1		N74-27612*	c 32	NASA-CASE-MSC-14219-1	US-PATENT-APPL-SN-324029
N74-22865*	c 33			US-PATENT-3,808,511				US-PATENT-APPL-SN-267572					US-PATENT-CLASS-117-2R
				NASA-CASE-LAR-10168-1				US-PATENT-CLASS-250-499					US-PATENT-CLASS-156-94
				US-PATENT-APPL-SN-354407				US-PATENT-CLASS-313-61S					US-PATENT-CLASS-179-100.2A
				US-PATENT-CLASS-174-DIG.8		N74-26945*	c 35	US-PATENT-3,816,785					US-PATENT-CLASS-179-100.2B
				US-PATENT-CLASS-174-69				NASA-CASE-MFS-21556-1					US-PATENT-CLASS-264-36
				US-PATENT-CLASS-174-70R				US-PATENT-APPL-SN-340791					US-PATENT-3,819,440
				US-PATENT-CLASS-244-151R				US-PATENT-CLASS-177-200					US-PATENT-CLASS-ARC-10593-1
N74-22885*	c 33			US-PATENT-3,809,800				US-PATENT-CLASS-177-211		N74-27682*	c 33	NASA-CASE-ARC-10593-1	US-PATENT-APPL-SN-310193
				NASA-CASE-MFS-21671-1				US-PATENT-CLASS-177-246					US-PATENT-CLASS-250-207
				US-PATENT-APPL-SN-329958				US-PATENT-CLASS-73-141A					US-PATENT-CLASS-307-252L
				US-PATENT-CLASS-323-106		N74-26946*	c 35	US-PATENT-3,812,924					US-PATENT-CLASS-307-252Q
				US-PATENT-CLASS-323-122				NASA-CASE-MFS-22040-1					US-PATENT-3,821,546
				US-PATENT-CLASS-323-128				US-PATENT-APPL-SN-365644					NASA-CASE-LEW-10950-1
				US-PATENT-3,808,517				US-PATENT-CLASS-350-3.5		N74-27683*	c 33	US-PATENT-APPL-SN-273222	US-PATENT-CLASS-174-111
N74-23039*	c 34			NASA-CASE-GSC-11620-1				US-PATENT-CLASS-96-38.3					US-PATENT-CLASS-174-15C
				US-PATENT-APPL-SN-280305				US-PATENT-CLASS-96-79					US-PATENT-CLASS-174-28
				US-PATENT-CLASS-126-270		N74-26947*	c 25	US-PATENT-3,815,969					US-PATENT-CLASS-310-4R
				US-PATENT-CLASS-244-127				NASA-CASE-ARC-10633-1					US-PATENT-3,821,462
				US-PATENT-CLASS-244-31				US-PATENT-APPL-SN-354611					NASA-CASE-MSC-14066-1
				US-PATENT-3,807,384				US-PATENT-CLASS-250-304		N74-27705*	c 33	US-PATENT-APPL-SN-297127	US-PATENT-CLASS-178-88
N74-23040*	c 35			NASA-CASE-NPO-11932-1				US-PATENT-CLASS-250-343					US-PATENT-CLASS-325-320
				NASA-CASE-NPO-13127-1				US-PATENT-CLASS-250-373					US-PATENT-3,818,346
				US-PATENT-APPL-SN-311234				US-PATENT-3,814,939					NASA-CASE-MFS-21424-1
				US-PATENT-CLASS-356-1065		N74-26948*	c 25	NASA-CASE-MFS-21395-1					US-PATENT-APPL-SN-315048
				US-PATENT-CLASS-356-113				US-PATENT-APPL-SN-260093					US-PATENT-CLASS-73-147
				US-PATENT-3,809,481				US-PATENT-CLASS-204-180R					US-PATENT-CLASS-73-3
N74-23064*	c 37			NASA-CASE-LAR-10900-1				US-PATENT-3,814,678		N74-27730*	c 34	NASA-CASE-MFS-21424-1	US-PATENT-3,817,082
				US-PATENT-APPL-SN-290021		N74-26949*	c 35	NASA-CASE-GSC-11492-1					US-PATENT-APPL-SN-258171
				US-PATENT-CLASS-161-116				US-PATENT-APPL-SN-372148					US-PATENT-CLASS-204-180R
				US-PATENT-3,809,601				US-PATENT-CLASS-250-374					US-PATENT-CLASS-204-299
N74-23065*	c 31			NASA-CASE-NPO-11758-1				US-PATENT-CLASS-250-385		N74-27744*	c 34	NASA-CASE-MFS-21394-1	US-PATENT-3,821,102
				US-PATENT-APPL-SN-266913				US-PATENT-CLASS-313-93					NASA-CASE-GSC-11434-1
				US-PATENT-CLASS-204-222				US-PATENT-3,812,358					US-PATENT-APPL-SN-263498
				US-PATENT-3,810,829		N74-26976*	c 37	NASA-CASE-MFS-21846-1					US-PATENT-CLASS-73-190R
N74-23066*	c 34			NASA-CASE-LAR-10089-1				US-PATENT-APPL-SN-359958					US-PATENT-CLASS-3813,937
				US-PATENT-APPL-SN-305638				US-PATENT-CLASS-188-163		N74-27859*	c 34	NASA-CASE-GSC-11434-1	US-PATENT-APPL-SN-263498
				US-PATENT-CLASS-240-47				US-PATENT-CLASS-188-171					US-PATENT-CLASS-73-190R
				US-PATENT-CLASS-353-54				US-PATENT-3,812,936					US-PATENT-3,813,937
				US-PATENT-CLASS-353-61		N74-26977*	c 33	NASA-CASE-MFS-22133-1					NASA-CASE-MSC-14081-1
				US-PATENT-3,811,044				US-PATENT-APPL-SN-337487		N74-27860*	c 35	US-PATENT-APPL-SN-331760	US-PATENT-CLASS-250-576
N74-23068*	c 46			NASA-CASE-XNP-10007-1				US-PATENT-CLASS-29-203MW					US-PATENT-CLASS-356-180
				US-PATENT-APPL-SN-611414				US-PATENT-3,815,205					US-PATENT-CLASS-356-246
				US-PATENT-APPL-SN-768942		N74-27035*	c 24	NASA-CASE-XLA-11028-1					US-PATENT-3,817,627
				US-PATENT-CLASS-299-67				US-PATENT-APPL-SN-219435					NASA-CASE-MFS-21108-1
				US-PATENT-3,606,470				US-PATENT-CLASS-156-285					US-PATENT-APPL-SN-307728
N74-23069*	c 46			NASA-CASE-XNP-09755				US-PATENT-CLASS-156-285					US-PATENT-CLASS-136-213
				US-PATENT-APPL-SN-611414				US-PATENT-3,814,653					US-PATENT-CLASS-136-230
				US-PATENT-APPL-SN-857241		N74-27037*	c 27	NASA-CASE-ARC-10304-2		N74-27861*	c 34	NASA-CASE-MFS-21108-1	US-PATENT-CLASS-136-233
				US-PATENT-CLASS-125-1				US-PATENT-APPL-SN-140946					US-PATENT-3,819,419
				US-PATENT-CLASS-125-3				US-PATENT-APPL-SN-318358					NASA-CASE-KSC-10731-1
				US-PATENT-CLASS-299-86				US-PATENT-CLASS-102-105		N74-27862*	c 33	US-PATENT-APPL-SN-288847	US-PATENT-CLASS-324-72
				US-PATENT-CLASS-51-283				US-PATENT-CLASS-106-15FP					US-PATENT-CLASS-340-151
				US-PATENT-3,612,030				US-PATENT-CLASS-252-8.1					US-PATENT-CLASS-340-182
N74-23070*	c 37			NASA-CASE-MFS-20645-1				US-PATENT-CLASS-260-DIG.24					US-PATENT-CLASS-340-200
				US-PATENT-APPL-SN-103091				US-PATENT-CLASS-260-2.5FP					US-PATENT-CLASS-73-170R
				US-PATENT-CLASS-74-217R				US-PATENT-CLASS-260-2R					US-PATENT-3,820,095
				US-PATENT-3,678,771				US-PATENT-CLASS-260-396N					NASA-CASE-MFS-21049-1
N74-23125*	c 27			NASA-CASE-LEW-10199-1				US-PATENT-3,819,550		N74-27864*	c 52	NASA-CASE-MFS-21049-1	US-PATENT-APPL-SN-304430
				US-PATENT-APPL-SN-651972				NASA-CASE-LAR-10670-2					US-PATENT-CLASS-128-2S
				US-PATENT-CLASS-117-126GR				US-PATENT-APPL-SN-248761					US-PATENT-CLASS-338-114
				US-PATENT-CLASS-117-132B		N74-27360*	c 15	US-PATENT-APPL-SN-59892					US-PATENT-CLASS-338-5
				US-PATENT-CLASS-117-161UN				US-PATENT-CLASS-102-90					US-PATENT-CLASS-73-88.5R
				US-PATENT-CLASS-260-78TF				NASA-CASE-MFS-21681-1					US-PATENT-3,820,529
				US-PATENT-3,647,529				US-PATENT-CLASS-60-214		N74-27865*	c 35	NASA-CASE-MFS-21728-1	US-PATENT-APPL-SN-361907
N74-25968*	c 37			NASA-CASE-MFS-21485-1				US-PATENT-CLASS-60-215					US-PATENT-CLASS-73-141A
				US-PATENT-APPL-SN-277436				US-PATENT-CLASS-60-39.46					US-PATENT-3,820,388
				US-PATENT-CLASS-408-111				US-PATENT-3,813,875					NASA-CASE-MFS-21372-1
				US-PATENT-CLASS-408-80				NASA-CASE-MFS-21680-1					US-PATENT-APPL-SN-226477
				US-PATENT-CLASS-90-12.5		N74-27397*	c 18	NASA-CASE-MFS-21681-1					US-PATENT-CLASS-250-505
				US-PATENT-3,813,183				US-PATENT-APPL-SN-343607					US-PATENT-CLASS-250-511
N74-26625*	c 52			NASA-CASE-NPO-13065-1				US-PATENT-CLASS-244-1SS					US-PATENT-3,821,556
				US-PATENT-APPL-SN-269073				US-PATENT-CLASS-248-16		N74-27866*	c 74	NASA-CASE-MFS-21372-1	NASA-CASE-LAR-10841-1
				US-PATENT-CLASS-128-2.1A				US-PATENT-CLASS-248-23					US-PATENT-APPL-SN-307729
				US-PATENT-CLASS-325-113				US-PATENT-3,814,350					US-PATENT-CLASS-13-31
				US-PATENT-CLASS-325-141				NASA-CASE-NPO-11743-1					US-PATENT-CLASS-73-15R
				US-PATENT-CLASS-340-183		N74-27425*	c 28	US-PATENT-APPL-SN-277904					US-PATENT-3,817,084
				US-PATENT-CLASS-340-203				US-PATENT-CLASS-102-28EB					NASA-CASE-ARC-10462-1
				US-PATENT-CLASS-340-207R				US-PATENT-CLASS-102-70.2A		N74-27900*	c 31	US-PATENT-APPL-SN-307729	US-PATENT-CLASS-74-675
				US-PATENT-3,815,109				US-PATENT-CLASS-102-70-2R					US-PATENT-CLASS-74-710
N74-26626*	c 52			NASA-CASE-MSC-13999-1				US-PATENT-3,812,783					US-PATENT-3,818,775
				US-PATENT-APPL-SN-256317				NASA-CASE-LEW-11286-1					
				US-PATENT-CLASS-128-2.05A		N74-27490*	c 07	US-PATENT-APPL-SN-339806		N74-27901*	c 37	NASA-CASE-ARC-10462-1	US-PATENT-APPL-SN-310615
				US-PATENT-CLASS-128-2.05S				US-PATENT-CLASS-318-33HB					US-PATENT-CLASS-74-675
				US-PATENT-3,814,083				US-PATENT-CLASS-239-265.17					US-PATENT-CLASS-74-710
N74-26654*	c 32			NASA-CASE-MSC-14065-1				US-PATENT-3,820,630					
				US-PATENT-APPL-SN-297128		N74-27519*	c 44	NASA-CASE-MFS-20761-1					

N74-27902*	c 31	NASA-CASE-GSC-11445-1 US-PATENT-APPL-SN-248471 US-PATENT-CLASS-236-49 US-PATENT-CLASS-98-39 US-PATENT-3,818,814	N74-31269*	c 20	US-PATENT-3,827,288 NASA-CASE-LEW-11646-1 US-PATENT-APPL-SN-292686 US-PATENT-CLASS-204-192 US-PATENT-3,826,729	N74-33218*	c 07	NASA-CASE-ARC-10712-1 US-PATENT-APPL-SN-344410 US-PATENT-CLASS-181-33HC US-PATENT-CLASS-239-265.11 US-PATENT-3,830,431
N74-27903*	c 37	NASA-CASE-MS-C-12549-1 US-PATENT-APPL-SN-301039 US-PATENT-CLASS-244-1SD US-PATENT-3,820,741	N74-31270*	c 07	NASA-CASE-LAR-10642-1 US-PATENT-APPL-SN-266820 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-415-181 US-PATENT-3,829,237	N74-33378*	c 25	NASA-CASE-MFS-21675-1 US-PATENT-APPL-SN-392823 US-PATENT-CLASS-23-277C US-PATENT-CLASS-431-202 US-PATENT-3,833,336
N74-27904*	c 37	NASA-CASE-LEW-11672-1 US-PATENT-APPL-SN-305639 US-PATENT-CLASS-417-52 US-PATENT-3,819,299	N74-32418*	c 07	NASA-CASE-LAR-11141-1 US-PATENT-APPL-SN-359957 US-PATENT-CLASS-181-33C US-PATENT-CLASS-181-33F US-PATENT-CLASS-181-33H US-PATENT-CLASS-181-33L US-PATENT-CLASS-181-42 US-PATENT-3,830,335	N74-33379*	c 44	NASA-CASE-ARC-10461-1 US-PATENT-APPL-SN-336319 US-PATENT-CLASS-60-527 US-PATENT-3,830,060
N74-27905*	c 37	NASA-CASE-LAR-10450-1 US-PATENT-APPL-SN-289017 US-PATENT-CLASS-51-225 US-PATENT-CLASS-51-234 US-PATENT-CLASS-51-97R US-PATENT-3,820,286	N74-32546*	c 54	NASA-CASE-MS-C-11072 US-PATENT-APPL-SN-689455 US-PATENT-CLASS-156-218 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-82 US-PATENT-3,832,735	N74-34638*	c 33	NASA-CASE-MFS-22343-1 US-PATENT-APPL-SN-329237 US-PATENT-CLASS-307-18 US-PATENT-CLASS-307-295 US-PATENT-CLASS-307-304 US-PATENT-CLASS-307-35 US-PATENT-3,840,829
N74-28097*	c 35	NASA-CASE-GSC-11479-1 US-PATENT-APPL-SN-293739 US-PATENT-CLASS-244-1SA US-PATENT-CLASS-74-5.5 US-PATENT-3,818,767	N74-32598*	c 32	NASA-CASE-MS-C-14070-1 US-PATENT-APPL-SN-266940 US-PATENT-CLASS-340-146.1AQ US-PATENT-3,831,142	N74-34672*	c 85	NASA-CASE-LAR-10256-1 US-PATENT-APPL-SN-220785 US-PATENT-CLASS-104-138R US-PATENT-CLASS-104-23FS US-PATENT-CLASS-238-134 US-PATENT-3,837,285
N74-28226*	c 07	NASA-CASE-LEW-11402-1 US-PATENT-APPL-SN-219806 US-PATENT-CLASS-415-181 US-PATENT-CLASS-416-223 US-PATENT-CLASS-416-237 US-PATENT-3,820,918	N74-32660*	c 33	NASA-CASE-GSC-11617-1 US-PATENT-APPL-SN-402865 US-PATENT-CLASS-330-4.9 US-PATENT-CLASS-330-53 US-PATENT-3,833,857	N74-34857*	c 35	NASA-CASE-LAR-11428-1 US-PATENT-APPL-SN-188836 US-PATENT-APPL-SN-357126 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-295 US-PATENT-3,835,318
N74-29410*	c 19	NASA-CASE-MFS-21577-1 US-PATENT-APPL-SN-343308 US-PATENT-CLASS-250-372 US-PATENT-CLASS-250-394 US-PATENT-3,825,760	N74-32711*	c 33	NASA-CASE-MS-C-14130-1 US-PATENT-APPL-SN-373587 US-PATENT-CLASS-307-267 US-PATENT-CLASS-328-58 US-PATENT-3,831,098	N75-12086*	c 25	NASA-CASE-ARC-10469-1 US-PATENT-APPL-SN-281908 US-PATENT-CLASS-195-103.5R US-PATENT-3,846,243
N74-29556*	c 33	NASA-CASE-KSC-10769-1 US-PATENT-APPL-SN-374583 US-PATENT-CLASS-318-602 US-PATENT-CLASS-318-603 US-PATENT-CLASS-318-664 US-PATENT-3,826,964	N74-32712*	c 33	NASA-CASE-NPO-11948-1 US-PATENT-APPL-SN-306652 US-PATENT-CLASS-307-230 US-PATENT-CLASS-330-69 US-PATENT-CLASS-333-80R US-PATENT-3,831,117	N75-12087*	c 25	NASA-CASE-ARC-10643-1 US-PATENT-APPL-SN-513389 US-PATENT-CLASS-117-161UA US-PATENT-CLASS-117-161UN US-PATENT-CLASS-117-161UZ US-PATENT-CLASS-117-93.1GD US-PATENT-CLASS-204-177 US-PATENT-CLASS-210-500 US-PATENT-CLASS-264-217 US-PATENT-CLASS-264-22 US-PATENT-3,847,652
N74-30001*	c 24	NASA-CASE-LAR-10416-1 US-PATENT-APPL-SN-251752 US-PATENT-CLASS-156-94 US-PATENT-3,814,645	N74-32877*	c 35	NASA-CASE-LAR-10806-1 US-PATENT-APPL-SN-322998 US-PATENT-CLASS-33-1M US-PATENT-CLASS-33-23R US-PATENT-CLASS-338-89 US-PATENT-CLASS-340-347AD US-PATENT-CLASS-346-33R US-PATENT-3,832,781	N75-12161*	c 31	NASA-CASE-MFS-20775-1 US-PATENT-APPL-SN-356664 US-PATENT-CLASS-118-49.1 US-PATENT-3,847,115
N74-30156*	c 75	NASA-CASE-ARC-10598-1 US-PATENT-APPL-SN-318151 US-PATENT-CLASS-356-201 US-PATENT-CLASS-356-43 US-PATENT-CLASS-356-73 US-PATENT-CLASS-356-85 US-PATENT-CLASS-356-87 US-PATENT-3,817,622	N74-32878*	c 35	NASA-CASE-LAR-11139-1 US-PATENT-APPL-SN-287149 US-PATENT-CLASS-73-182 US-PATENT-CLASS-73-388 US-PATENT-3,832,903	N75-12222*	c 34	NASA-CASE-GSC-11619-1 US-PATENT-APPL-SN-397476 US-PATENT-CLASS-138-113 US-PATENT-CLASS-138-114 US-PATENT-CLASS-138-148 US-PATENT-CLASS-165-1 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-47 US-PATENT-CLASS-220-15 US-PATENT-CLASS-244-1SC US-PATENT-3,847,208
N74-30421*	c 08	NASA-CASE-LAR-10753-1 US-PATENT-APPL-SN-289018 US-PATENT-CLASS-244-327 US-PATENT-CLASS-244-90R US-PATENT-CLASS-244-91 US-PATENT-3,826,448	N74-32879*	c 35	NASA-CASE-MS-C-14187-1 US-PATENT-APPL-SN-326326 US-PATENT-CLASS-23-230L US-PATENT-CLASS-73-104 US-PATENT-CLASS-73-15.4 US-PATENT-CLASS-73-40.7 US-PATENT-3,830,094	N75-12270*	c 35	NASA-CASE-KSC-10750-1 US-PATENT-APPL-SN-346372 US-PATENT-CLASS-324-158T US-PATENT-CLASS-324-60C US-PATENT-3,848,190
N74-30502*	c 25	NASA-CASE-LEW-10906-1 US-PATENT-APPL-SN-245279 US-PATENT-APPL-SN-876588 US-PATENT-CLASS-204-157.1H US-PATENT-3,826,726	N74-32917*	c 31	NASA-CASE-NPO-13205-1 US-PATENT-APPL-SN-393525 US-PATENT-CLASS-425-288 US-PATENT-CLASS-425-35 US-PATENT-3,833,322	N75-12271*	c 35	NASA-CASE-MFS-20994-1 US-PATENT-APPL-SN-386789 US-PATENT-CLASS-128-2V US-PATENT-CLASS-73-67.1 US-PATENT-3,847,141
N74-30523*	c 32	NASA-CASE-NPO-11921-1 US-PATENT-APPL-SN-359039 US-PATENT-CLASS-179-15BC US-PATENT-CLASS-325-346 US-PATENT-3,828,138	N74-32918*	c 37	NASA-CASE-NPO-13157-1 US-PATENT-APPL-SN-370872 US-PATENT-CLASS-29-203H US-PATENT-CLASS-29-268 US-PATENT-3,832,764	N75-12272*	c 35	NASA-CASE-LAR-11069-1 US-PATENT-APPL-SN-326198 US-PATENT-CLASS-195-127 US-PATENT-3,841,973
N74-30524*	c 32	NASA-CASE-MS-C-13912-1 US-PATENT-APPL-SN-310034 US-PATENT-CLASS-179-15AT US-PATENT-CLASS-179-15BY US-PATENT-3,828,137	N74-32919*	c 20	NASA-CASE-LEW-11118-1 US-PATENT-APPL-SN-289050 US-PATENT-CLASS-204-9 US-PATENT-3,832,290	N75-12273*	c 35	NASA-CASE-MFS-20506-1 US-PATENT-APPL-SN-328792 US-PATENT-CLASS-33-DIG.13 US-PATENT-CLASS-33-180R US-PATENT-CLASS-350-292 US-PATENT-3,842,509
N74-30597*	c 09	NASA-CASE-LAR-10550-1 US-PATENT-APPL-SN-261183 US-PATENT-CLASS-35-12E US-PATENT-3,824,707	N74-32920*	c 31	NASA-CASE-LAR-10489-2 US-PATENT-APPL-SN-198763 US-PATENT-APPL-SN-350300 US-PATENT-CLASS-249-145 US-PATENT-CLASS-249-184 US-PATENT-CLASS-249-83 US-PATENT-CLASS-249-95 US-PATENT-CLASS-425-128 US-PATENT-CLASS-425-415 US-PATENT-3,830,609	N75-12326*	c 37	NASA-CASE-LAR-11211-1 US-PATENT-APPL-SN-302681 US-PATENT-CLASS-29-470.1 US-PATENT-CLASS-29-475 US-PATENT-3,842,485
N74-30608*	c 34	NASA-CASE-LAR-10194-1 US-PATENT-APPL-SN-169962 US-PATENT-CLASS-55-159 US-PATENT-CLASS-55-199 US-PATENT-CLASS-55-43 US-PATENT-3,828,524	N74-32921*	c 37	NASA-CASE-LEW-11076-2 US-PATENT-APPL-SN-238264 US-PATENT-APPL-SN-346483 US-PATENT-CLASS-308-121 US-PATENT-3,830,552	N75-12616*	c 54	NASA-CASE-MFS-21611-1 US-PATENT-APPL-SN-403694 US-PATENT-CLASS-214-1CM US-PATENT-CLASS-307-149 US-PATENT-CLASS-308-174
N74-30886*	c 89	NASA-CASE-GSC-11569-1 US-PATENT-APPL-SN-293725 US-PATENT-CLASS-250-203R US-PATENT-CLASS-33-268 US-PATENT-CLASS-356-141 US-PATENT-CLASS-356-147 US-PATENT-3,827,807	N74-33209*	c 28	NASA-CASE-NPO-11975-1 US-PATENT-APPL-SN-329243 US-PATENT-CLASS-149-17			
N74-31148*	c 71	NASA-CASE-NPO-11623-1 US-PATENT-APPL-SN-235338 US-PATENT-CLASS-181.5R US-PATENT-CLASS-73-69 US-PATENT-CLASS-73-71.5R						

N75-12732*	c 74	US-PATENT-3,849,668	N75-13539*	c 60	US-PATENT-3,850,169	N75-16783*	c 35	US-PATENT-CLASS-117-93.3
		NASA-CASE-ARC-10448-2			NASA-CASE-ARC-10466-1			US-PATENT-CLASS-156-89
		US-PATENT-APPL-SN-374424			US-PATENT-APPL-SN-352382			US-PATENT-CLASS-156-99
		US-PATENT-CLASS-156-16			US-PATENT-CLASS-235-156			US-PATENT-CLASS-29-472.7
		US-PATENT-CLASS-156-18			US-PATENT-CLASS-235-197			US-PATENT-CLASS-29-473.1
N75-12810*	c 76	US-PATENT-CLASS-156-7	N75-13625*	c 75	US-PATENT-CLASS-324-77B	N75-18310*	c 20	US-PATENT-CLASS-65-43
		US-PATENT-CLASS-156-7			US-PATENT-3,851,162			US-PATENT-3,859,714
		US-PATENT-CLASS-250-495			NASA-CASE-MFS-22145-1			NASA-CASE-ARC-10637-1
		US-PATENT-3,847,689			US-PATENT-APPL-SN-367606			US-PATENT-APPL-SN-352383
		NASA-CASE-LAR-11059-1			US-PATENT-CLASS-176-3			US-PATENT-CLASS-356-28
N75-12930*	c 05	US-PATENT-CLASS-73-32R	N75-14834*	c 23	US-PATENT-CLASS-313-63	N75-18477*	c 33	US-PATENT-3,860,342
		US-PATENT-CLASS-73-432PS			US-PATENT-CLASS-315-111			NASA-CASE-LEW-11694-1
		US-PATENT-3,842,656			US-PATENT-CLASS-328-233			US-PATENT-APPL-SN-352381
		NASA-CASE-ARC-10456-1			US-PATENT-3,854,097			US-PATENT-CLASS-29-25.18
		US-PATENT-APPL-SN-237491			US-PATENT-APPL-SN-178771			US-PATENT-CLASS-72-63
N75-12968*	c 09	US-PATENT-CLASS-244-75R	N75-14844*	c 25	US-PATENT-APPL-SN-69488	N75-18479*	c 33	US-PATENT-3,864,797
		US-PATENT-CLASS-244-83R			US-PATENT-CLASS-106-13			NASA-CASE-MFS-22129-1
		US-PATENT-CLASS-416-25			US-PATENT-CLASS-106-15R			US-PATENT-APPL-SN-370255
		US-PATENT-CLASS-74-480R			US-PATENT-CLASS-106-287SB			US-PATENT-CLASS-324-32
		US-PATENT-3,850,388			US-PATENT-CLASS-117-124F			US-PATENT-CLASS-324-54
N75-12969*	c 09	US-PATENT-CLASS-108-136	N75-14957*	c 33	US-PATENT-CLASS-117-135.5	N75-18573*	c 37	US-PATENT-3,866,114
		US-PATENT-3,853,075			US-PATENT-CLASS-252-549			NASA-CASE-MSC-14129-1
		NASA-CASE-ARC-10710-1			US-PATENT-CLASS-252-70			US-PATENT-APPL-SN-362146
		US-PATENT-APPL-SN-379019			US-PATENT-3,856,534			US-PATENT-CLASS-307-229
		US-PATENT-CLASS-73-147			NASA-CASE-NPO-12130-1			US-PATENT-CLASS-307-235R
N75-13007*	c 15	US-PATENT-3,853,003	N75-15014*	c 35	US-PATENT-APPL-SN-750235	N75-18574*	c 37	US-PATENT-CLASS-307-267
		NASA-CASE-GSC-11182-1			US-PATENT-CLASS-23-230B			US-PATENT-CLASS-328-115
		US-PATENT-APPL-SN-393527			US-PATENT-CLASS-23-253R			US-PATENT-CLASS-328-151
		US-PATENT-CLASS-325-4			US-PATENT-3,856,471			US-PATENT-CLASS-328-58
		US-PATENT-3,851,250			NASA-CASE-MSC-14240-1			US-PATENT-3,869,624
N75-13032*	c 24	US-PATENT-APPL-SN-390466	N75-14957*	c 33	US-PATENT-APPL-SN-351929	N75-18573*	c 37	US-PATENT-APPL-SN-395687
		US-PATENT-CLASS-29-420			US-PATENT-CLASS-307-205			US-PATENT-CLASS-248-358R
		US-PATENT-CLASS-29-604			US-PATENT-CLASS-307-208			US-PATENT-3,863,881
		US-PATENT-CLASS-340-174MA			US-PATENT-3,857,045			NASA-CASE-GSC-11079-1
		US-PATENT-CLASS-75-200			NASA-CASE-LAR-11213-1			US-PATENT-APPL-SN-100637
N75-13111*	c 31	US-PATENT-3,849,877	N75-15028*	c 36	US-PATENT-APPL-SN-406715	N75-18574*	c 37	US-PATENT-CLASS-308-10
		NASA-CASE-LAR-10782-2			US-PATENT-CLASS-250-201			US-PATENT-3,865,442
		US-PATENT-APPL-SN-197689			US-PATENT-CLASS-356-4			NASA-CASE-MFS-22734-1
		US-PATENT-APPL-SN-379049			US-PATENT-3,857,031			US-PATENT-APPL-SN-453232
		US-PATENT-CLASS-249-144			NASA-CASE-MFS-21244-1			US-PATENT-CLASS-244-162
N75-13139*	c 33	US-PATENT-CLASS-249-145	N75-15029*	c 36	US-PATENT-APPL-SN-350249	N75-19329*	c 18	US-PATENT-3,866,863
		US-PATENT-CLASS-249-59			US-PATENT-CLASS-356-103			NASA-CASE-LEW-11696-2
		US-PATENT-CLASS-425-DIG.43			US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-298156
		US-PATENT-CLASS-425-405R			US-PATENT-CLASS-356-5			US-PATENT-APPL-SN-436315
		US-PATENT-CLASS-425-438			US-PATENT-3,856,402			US-PATENT-CLASS-29-194
N75-13139*	c 33	US-PATENT-CLASS-425-468	N75-15050*	c 37	NASA-CASE-NPO-13050-1	N75-19408*	c 26	US-PATENT-CLASS-29-196.2
		US-PATENT-3,850,567			US-PATENT-APPL-SN-317567			US-PATENT-CLASS-29-196.6
		NASA-CASE-MFS-22073-1			US-PATENT-CLASS-117-95			US-PATENT-CLASS-29-197
		US-PATENT-APPL-SN-409991			US-PATENT-CLASS-117-97			US-PATENT-3,869,779
		US-PATENT-CLASS-318-608			US-PATENT-CLASS-330-4			NASA-CASE-MSC-14131-1
N75-13213*	c 35	US-PATENT-CLASS-318-640	N75-15050*	c 37	US-PATENT-CLASS-332-7.5	N75-19515*	c 33	US-PATENT-APPL-SN-373588
		US-PATENT-CLASS-318-649			US-PATENT-3,859,119			US-PATENT-CLASS-307-260
		US-PATENT-CLASS-318-675			NASA-CASE-NPO-13201-1			US-PATENT-CLASS-324-78J
		US-PATENT-3,851,238			US-PATENT-APPL-SN-372149			US-PATENT-CLASS-328-59
		NASA-CASE-LEW-11632-2			US-PATENT-CLASS-137-505.38			US-PATENT-CLASS-331-78
N75-13261*	c 37	US-PATENT-CLASS-29-196.6	N75-15270*	c 52	US-PATENT-CLASS-137-505.42	N75-19516*	c 33	US-PATENT-3,866,128
		US-PATENT-CLASS-29-197			NASA-CASE-NPO-12119-1			NASA-CASE-GSC-11760-1
		US-PATENT-CLASS-29-460			US-PATENT-APPL-SN-847815			NASA-CASE-GSC-11783-1
		US-PATENT-CLASS-29-494			US-PATENT-CLASS-424-180			US-PATENT-APPL-SN-395868
		US-PATENT-CLASS-29-497.5			US-PATENT-3,849,554			US-PATENT-CLASS-343-761
N75-13265*	c 37	US-PATENT-CLASS-29-504	N75-15562*	c 09	US-PATENT-CLASS-117-95	N75-19517*	c 33	US-PATENT-CLASS-343-781
		US-PATENT-3,849,865			US-PATENT-CLASS-117-97			US-PATENT-CLASS-343-837
		NASA-CASE-KSC-10723-1			US-PATENT-CLASS-330-4			US-PATENT-3,866,233
		US-PATENT-APPL-SN-347952			US-PATENT-CLASS-272-57A			NASA-CASE-GSC-11582-1
		US-PATENT-CLASS-338-162			US-PATENT-CLASS-35-12C			US-PATENT-APPL-SN-397477
N75-13266*	c 37	US-PATENT-CLASS-338-75	N75-15854*	c 32	US-PATENT-CLASS-343-100ST	N75-19518*	c 33	US-PATENT-CLASS-178-15
		US-PATENT-CLASS-338-97			US-PATENT-CLASS-343-17.5			US-PATENT-CLASS-315-18
		US-PATENT-3,854,113			US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-340-324AD
		NASA-CASE-NPO-13281-1			US-PATENT-CLASS-343-9			US-PATENT-3,866,210
		US-PATENT-APPL-SN-412079			US-PATENT-3,860,921			NASA-CASE-ARC-10348-1
N75-13502*	c 51	US-PATENT-CLASS-74-436	N75-15874*	c 33	NASA-CASE-MFS-22088-1	N75-19519*	c 33	US-PATENT-APPL-SN-319150
		US-PATENT-CLASS-74-820			US-PATENT-APPL-SN-426155			US-PATENT-CLASS-235-92DM
		US-PATENT-3,855,873			US-PATENT-CLASS-318-227			US-PATENT-CLASS-235-92LG
		NASA-CASE-LAR-11074-1			US-PATENT-CLASS-318-230			US-PATENT-CLASS-235-92R
		US-PATENT-APPL-SN-326364			US-PATENT-CLASS-318-231			US-PATENT-CLASS-235-92T
N75-13531*	c 54	US-PATENT-CLASS-115-103.5	N75-15931*	c 35	US-PATENT-3,860,858	N75-19520*	c 33	US-PATENT-CLASS-235-92VA
		US-PATENT-CLASS-195-120			NASA-CASE-MFS-21761-1			US-PATENT-3,866,022
		US-PATENT-CLASS-195-127			US-PATENT-APPL-SN-337816			NASA-CASE-ARC-10364-3
		US-PATENT-3,850,754			US-PATENT-CLASS-200-83N			US-PATENT-APPL-SN-209618
		NASA-CASE-LEW-11581-1			US-PATENT-CLASS-73-40			US-PATENT-APPL-SN-462844
N75-15270*	c 52	US-PATENT-CLASS-73-49.2	N75-15932*	c 35	US-PATENT-CLASS-73-49.2	N75-19521*	c 33	US-PATENT-CLASS-307-321
		US-PATENT-3,859,845			NASA-CASE-MFS-21045-1			US-PATENT-CLASS-324-DIG.1
		US-PATENT-APPL-SN-411572			US-PATENT-APPL-SN-411572			US-PATENT-CLASS-329-166
		US-PATENT-CLASS-73-1R			US-PATENT-CLASS-73-1R			US-PATENT-CLASS-329-204
		US-PATENT-CLASS-73-379			US-PATENT-CLASS-73-379			US-PATENT-CLASS-332-47
N75-15562*	c 09	US-PATENT-3,859,840	N75-15992*	c 37	NASA-CASE-GSC-11577-1	N75-19521*	c 33	US-PATENT-3,869,676
		US-PATENT-CLASS-343-9			US-PATENT-APPL-SN-322997			NASA-CASE-KSC-10736-1
		US-PATENT-3,860,921			US-PATENT-CLASS-117-106A			US-PATENT-APPL-SN-348787
		NASA-CASE-MFS-22088-1			US-PATENT-CLASS-117-106A			US-PATENT-CLASS-324-102
		US-PATENT-APPL-SN-426155			US-PATENT-CLASS-117-106A			US-PATENT-CLASS-324-111

N75-19522*	c 33	US-PATENT-3,869,667	US-PATENT-CLASS-165-111	US-PATENT-CLASS-331-25
		NASA-CASE-GSC-11844-1	US-PATENT-CLASS-62-285	US-PATENT-3,883,817
		US-PATENT-APPL-SN-452761	US-PATENT-CLASS-62-288	N75-25041* c 33 NASA-CASE-ARC-10364-2
		US-PATENT-CLASS-307-227	US-PATENT-CLASS-62-289	US-PATENT-APPL-SN-209618
N75-19524*	c 33	US-PATENT-CLASS-321-15	US-PATENT-CLASS-62-290	US-PATENT-APPL-SN-433968
		US-PATENT-CLASS-324-32	US-PATENT-CLASS-62-317	US-PATENT-CLASS-307-321
		US-PATENT-3,869,659	US-PATENT-CLASS-62-93	US-PATENT-CLASS-324-DIG.1
		NASA-CASE-NPO-13374-1	US-PATENT-3,868,830	US-PATENT-CLASS-329-166
N75-20140*	c 77	US-PATENT-APPL-SN-449118	NASA-CASE-GSC-11752-1	US-PATENT-CLASS-329-204
		US-PATENT-CLASS-318-137	US-PATENT-APPL-SN-446569	US-PATENT-3,883,812
		US-PATENT-CLASS-318-167	US-PATENT-CLASS-219-497	N75-25122* c 35 NASA-CASE-NPO-10764-2
		US-PATENT-CLASS-318-176	US-PATENT-CLASS-219-501	US-PATENT-APPL-SN-273519
N75-19611*	c 35	US-PATENT-CLASS-318-183	US-PATENT-CLASS-219-505	US-PATENT-APPL-SN-836280
		US-PATENT-3,867,677	US-PATENT-3,869,597	US-PATENT-CLASS-116-114.5
		NASA-CASE-LAR-11071-1	NASA-CASE-MSC-12607-1	US-PATENT-CLASS-117-72
		US-PATENT-APPL-SN-334349	US-PATENT-APPL-SN-407323	US-PATENT-CLASS-73-356
N75-21485*	c 32	US-PATENT-CLASS-417-138	US-PATENT-CLASS-178-DIG.12	US-PATENT-3,874,240
		US-PATENT-CLASS-417-36	US-PATENT-CLASS-358-36	N75-25123* c 35 NASA-CASE-NPO-13214-1
		US-PATENT-CLASS-417-395	US-PATENT-3,875,584	NASA-CASE-NPO-13215-1
		US-PATENT-CLASS-73-221	NASA-CASE-MSC-14558-1	US-PATENT-APPL-SN-394149
N75-19612*	c 35	US-PATENT-3,864,060	US-PATENT-APPL-SN-428994	US-PATENT-CLASS-178-DIG.29
		NASA-CASE-LAR-11237-1	US-PATENT-CLASS-178-58A	US-PATENT-CLASS-178-7.2
		US-PATENT-APPL-SN-402868	US-PATENT-CLASS-178-79	US-PATENT-3,883,689
		US-PATENT-CLASS-340-242	US-PATENT-3,875,332	N75-25124* c 35 NASA-CASE-MFS-21704-1
N75-19613*	c 35	US-PATENT-CLASS-73-46	US-PATENT-APPL-SN-419831	US-PATENT-APPL-SN-386793
		US-PATENT-CLASS-73-49.2	US-PATENT-CLASS-178-69A	US-PATENT-CLASS-350-3.5
		US-PATENT-3,864,960	US-PATENT-CLASS-235-181	US-PATENT-3,883,215
		NASA-CASE-LAR-11207-1	US-PATENT-CLASS-324-57PS	N75-25185* c 37 NASA-CASE-NPO-13380-1
N75-19614*	c 35	US-PATENT-APPL-SN-385013	US-PATENT-CLASS-324-77H	US-PATENT-APPL-SN-401920
		US-PATENT-CLASS-178-DIG.20	US-PATENT-CLASS-325-67	US-PATENT-CLASS-228-1
		US-PATENT-CLASS-250-332	US-PATENT-3,875,500	US-PATENT-CLASS-251-333
		US-PATENT-CLASS-356-186	NASA-CASE-LEW-11274-1	US-PATENT-3,874,635
N75-19615*	c 35	US-PATENT-CLASS-356-189	US-PATENT-APPL-SN-380630	N75-25186* c 37 NASA-CASE-MFS-22649-1
		US-PATENT-CLASS-356-83	US-PATENT-CLASS-277-134	US-PATENT-APPL-SN-398901
		US-PATENT-CLASS-356-96	US-PATENT-CLASS-277-27	US-PATENT-CLASS-408-112
		US-PATENT-3,869,212	US-PATENT-CLASS-277-40	US-PATENT-CLASS-408-186
N75-19616*	c 35	NASA-CASE-LAR-11173-1	US-PATENT-CLASS-277-40	US-PATENT-CLASS-408-193
		US-PATENT-APPL-SN-354408	US-PATENT-3,874,677	US-PATENT-CLASS-408-195
		US-PATENT-CLASS-332-2	NASA-CASE-NPO-13327-1	US-PATENT-3,877,833
		US-PATENT-CLASS-73-557	US-PATENT-APPL-SN-429437	N75-25503* c 51 NASA-CASE-ARC-10722-1
N75-19615*	c 35	US-PATENT-3,868,856	US-PATENT-CLASS-247-171	US-PATENT-APPL-SN-428995
		NASA-CASE-MFS-22189-1	US-PATENT-CLASS-250-203	US-PATENT-CLASS-47-1.2
		US-PATENT-APPL-SN-405342	US-PATENT-CLASS-250-211R	US-PATENT-CLASS-47-39
		US-PATENT-CLASS-33-148D	US-PATENT-3,875,404	US-PATENT-CLASS-47-58
N75-19616*	c 35	US-PATENT-CLASS-73-143	NASA-CASE-MSC-14339-1	US-PATENT-3,882,634
		US-PATENT-3,864,953	US-PATENT-APPL-SN-347953	N75-25706* c 74 NASA-CASE-HQN-10542-1
		NASA-CASE-MFS-20932-1	US-PATENT-CLASS-128-2.08E	US-PATENT-APPL-SN-163151
		US-PATENT-APPL-SN-374441	US-PATENT-CLASS-128-DIG.4	US-PATENT-CLASS-178-DIG.25
N75-19652*	c 36	US-PATENT-CLASS-250-505	US-PATENT-CLASS-128-2.06B	US-PATENT-CLASS-250-566
		US-PATENT-CLASS-250-508	US-PATENT-3,882,846	US-PATENT-CLASS-350-311
		US-PATENT-CLASS-250-510	NASA-CASE-ARC-10754-1	US-PATENT-3,883,436
		US-PATENT-3,869,615	US-PATENT-APPL-SN-398886	N75-25730* c 76 NASA-CASE-GSC-11425-2
N75-19653*	c 36	NASA-CASE-NPO-13131-1	US-PATENT-CLASS-137-15.1	US-PATENT-APPL-SN-206266
		US-PATENT-APPL-SN-390468	US-PATENT-CLASS-244-53B	US-PATENT-APPL-SN-394206
		US-PATENT-CLASS-178-7.1	US-PATENT-3,883,095	US-PATENT-CLASS-357-23
		US-PATENT-CLASS-250-211R	NASA-CASE-GSC-11127-1	US-PATENT-CLASS-357-29
N75-19654*	c 36	US-PATENT-CLASS-250-578	US-PATENT-APPL-SN-401466	US-PATENT-CLASS-357-42
		US-PATENT-CLASS-315-169R	US-PATENT-CLASS-318-314	US-PATENT-CLASS-357-52
		US-PATENT-CLASS-340-173LS	US-PATENT-CLASS-318-318	US-PATENT-CLASS-357-54
		US-PATENT-3,865,975	US-PATENT-CLASS-318-341	US-PATENT-CLASS-357-91
N75-19655*	c 36	NASA-CASE-HQN-10844-1	US-PATENT-3,883,785	US-PATENT-3,882,530
		US-PATENT-APPL-SN-412080	NASA-CASE-NPO-13263-1	N75-25914* c 05 NASA-CASE-LAR-11252-1
		US-PATENT-CLASS-356-106LR	US-PATENT-APPL-SN-393523	US-PATENT-APPL-SN-367268
		US-PATENT-3,869,210	US-PATENT-CLASS-73-505	US-PATENT-CLASS-D12-76
N75-19656*	c 36	NASA-CASE-GSC-11746-1	US-PATENT-3,882,732	US-PATENT-CLASS-244-13
		US-PATENT-APPL-SN-393528	NASA-CASE-MFS-21488-1	US-PATENT-CLASS-244-15
		US-PATENT-CLASS-331-94.5M	US-PATENT-APPL-SN-359156	US-PATENT-CLASS-244-42DA
		US-PATENT-3,869,680	US-PATENT-CLASS-73-143	US-PATENT-CLASS-244-55
N75-19657*	c 36	NASA-CASE-LAR-11341-1	US-PATENT-3,882,719	US-PATENT-3,884,432
		US-PATENT-APPL-SN-367293	NASA-CASE-NPO-13303-1	N75-25915* c 05 NASA-CASE-ARC-10519-2
		US-PATENT-CLASS-330-4.3	US-PATENT-APPL-SN-457295	US-PATENT-APPL-SN-452767
		US-PATENT-CLASS-331-94.5P	US-PATENT-CLASS-310-10	US-PATENT-CLASS-280-150SB
N75-19683*	c 37	US-PATENT-3,868,591	US-PATENT-CLASS-310-4	US-PATENT-CLASS-297-385
		NASA-CASE-MSC-19095-1	US-PATENT-CLASS-310-40	US-PATENT-CLASS-297-388
		US-PATENT-APPL-SN-415486	US-PATENT-CLASS-310-52	US-PATENT-CLASS-297-389
		US-PATENT-CLASS-219-137	US-PATENT-CLASS-335-216	US-PATENT-3,887,233
N75-19684*	c 37	US-PATENT-3,864,542	US-PATENT-CLASS-60-516	N75-26043* c 25 NASA-CASE-LAR-11144-1
		NASA-CASE-NPO-13345-1	US-PATENT-CLASS-60-530	US-PATENT-APPL-SN-426405
		US-PATENT-APPL-SN-462705	US-PATENT-CLASS-62-3	US-PATENT-CLASS-117-106A
		US-PATENT-CLASS-204-192	US-PATENT-CLASS-62-467	US-PATENT-CLASS-117-107.2
N75-19685*	c 37	US-PATENT-CLASS-204-298	US-PATENT-3,875,435	US-PATENT-CLASS-117-201
		US-PATENT-3,864,239	NASA-CASE-GSC-11743-1	US-PATENT-CLASS-118-48
		NASA-CASE-MFS-21606-1	US-PATENT-APPL-SN-370271	US-PATENT-CLASS-118-49.1
		US-PATENT-APPL-SN-356555	US-PATENT-CLASS-178-66R	US-PATENT-CLASS-148-175
N75-19686*	c 37	US-PATENT-CLASS-292-DIG.14	US-PATENT-CLASS-325-30	US-PATENT-CLASS-252-62.3GA
		US-PATENT-CLASS-292-108	US-PATENT-CLASS-325-60	US-PATENT-3,888,705
		US-PATENT-CLASS-292-122	US-PATENT-3,878,464	N75-26194* c 32 NASA-CASE-NPO-13217-1
		US-PATENT-3,869,160	NASA-CASE-NPO-13140-1	US-PATENT-APPL-SN-362145
N75-20139*	c 77	NASA-CASE-MFS-19193-1	US-PATENT-APPL-SN-374422	US-PATENT-CLASS-343-105R
		US-PATENT-APPL-SN-461477	US-PATENT-CLASS-343-100PE	US-PATENT-CLASS-343-112D
		US-PATENT-CLASS-285-114	US-PATENT-CLASS-343-5GC	US-PATENT-3,889,264
		US-PATENT-CLASS-285-226	US-PATENT-3,883,872	N75-26195* c 32 NASA-CASE-NPO-13321-1
N75-20139*	c 77	US-PATENT-3,869,151	NASA-CASE-GSC-11623-1	US-PATENT-APPL-SN-455163
		NASA-CASE-MSC-14143-1	US-PATENT-APPL-SN-389929	US-PATENT-CLASS-178-69.5R
		US-PATENT-APPL-SN-393526	US-PATENT-CLASS-331-1A	US-PATENT-CLASS-179-15BS
		US-PATENT-CLASS-165-110	US-PATENT-CLASS-331-18	US-PATENT-CLASS-325-4

N75-26243*	c 33	US-PATENT-3,889,064	N75-27251*	c 33	US-PATENT-3,189,784	N75-29381*	c 35	US-PATENT-CLASS-311-37
		NASA-CASE-GSC-11744-1			NASA-CASE-HQN-10069			US-PATENT-CLASS-331-65
		US-PATENT-APPL-SN-353162			US-PATENT-APPL-SN-739072			US-PATENT-CLASS-73-23
		US-PATENT-CLASS-179-158C			US-PATENT-CLASS-330-5			US-PATENT-3,895,912
N75-26244*	c 33	US-PATENT-CLASS-235-150.53	N75-27252*	c 33	US-PATENT-3,551,831	N75-29382*	c 35	NASA-CASE-ARC-10806-1
		US-PATENT-CLASS-235-181			NASA-CASE-LAR-11042-1			US-PATENT-APPL-SN-478802
		US-PATENT-CLASS-324-83Q			US-PATENT-APPL-SN-440916			US-PATENT-CLASS-73-178R
		US-PATENT-CLASS-328-133			US-PATENT-CLASS-204-242			US-PATENT-3,895,521
N75-26245*	c 33	US-PATENT-3,875,394	N75-27328*	c 35	US-PATENT-CLASS-204-267	N75-29383*	c 35	NASA-CASE-XMS-05731
		NASA-CASE-MFS-22208-1			US-PATENT-CLASS-204-279			US-PATENT-APPL-SN-441279
		US-PATENT-APPL-SN-448325			US-PATENT-CLASS-204-286			US-PATENT-CLASS-73-117.4
		US-PATENT-CLASS-315-10			US-PATENT-CLASS-204-290R			US-PATENT-3,375,712
N75-26246*	c 33	US-PATENT-CLASS-315-367	N75-27329*	c 35	US-PATENT-3,891,533	N75-29426*	c 37	NASA-CASE-XLE-10717
		US-PATENT-CLASS-315-369			NASA-CASE-MFS-22537-1			US-PATENT-APPL-SN-844243
		US-PATENT-CLASS-315-387			US-PATENT-APPL-SN-387266			US-PATENT-CLASS-315-111
		US-PATENT-3,889,155			US-PATENT-CLASS-350-3.5			US-PATENT-3,004,189
N75-26247*	c 33	NASA-CASE-LAR-11352-1	N75-27330*	c 35	US-PATENT-3,888,561	N75-30132*	c 03	NASA-CASE-ERC-10419-1
		US-PATENT-APPL-SN-459736			NASA-CASE-XMF-05882			US-PATENT-APPL-SN-219722
		US-PATENT-CLASS-23-254E			US-PATENT-APPL-SN-533650			US-PATENT-CLASS-343-112CA
		US-PATENT-CLASS-324-58.5A			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-343-6.5R
N75-26248*	c 33	US-PATENT-CLASS-324-58.5C	N75-27331*	c 35	US-PATENT-3,454,766	N75-30256*	c 23	US-PATENT-3,900,847
		US-PATENT-3,889,182			NASA-CASE-LAR-11354-1			NASA-CASE-MFS-22356-1
		NASA-CASE-KSC-10807-1			US-PATENT-APPL-SN-409990			US-PATENT-APPL-SN-489008
		US-PATENT-APPL-SN-461073			US-PATENT-CLASS-195-103.5R			US-PATENT-CLASS-260-346.3
N75-26282*	c 34	US-PATENT-CLASS-324-72	N75-27336*	c 36	US-PATENT-CLASS-195-120	N75-30428*	c 33	US-PATENT-CLASS-260-520
		US-PATENT-3,889,185			US-PATENT-CLASS-195-127			US-PATENT-CLASS-260-78TF
		NASA-CASE-LAR-11110-1			US-PATENT-CLASS-195-141			US-PATENT-3,899,517
		US-PATENT-APPL-SN-420424			US-PATENT-3,884,765			NASA-CASE-LAR-10337-1
N75-26334*	c 35	US-PATENT-CLASS-233-DIG.1	N75-27376*	c 37	NASA-CASE-GSC-11829-1	N75-30430*	c 33	US-PATENT-APPL-SN-424038
		US-PATENT-CLASS-233-25			US-PATENT-APPL-SN-502136			US-PATENT-CLASS-29-610
		US-PATENT-CLASS-233-46			US-PATENT-CLASS-250-385			US-PATENT-CLASS-29-613
		US-PATENT-CLASS-233-6			US-PATENT-3,891,851			US-PATENT-CLASS-338-13
N75-26371*	c 37	US-PATENT-CLASS-233-6	N75-27585*	c 45	NASA-CASE-XLE-2529-2	N75-30429*	c 33	US-PATENT-CLASS-338-283
		US-PATENT-3,888,410			US-PATENT-APPL-SN-848403			US-PATENT-3,898,730
		NASA-CASE-ARC-10344-2			US-PATENT-CLASS-240-41B			NASA-CASE-MFS-22342-1
		US-PATENT-APPL-SN-446564			US-PATENT-CLASS-330-4.3			US-PATENT-APPL-SN-361666
N75-26372*	c 37	US-PATENT-CLASS-55-386	N75-27759*	c 54	US-PATENT-CLASS-331-94.5A	N75-30431*	c 33	US-PATENT-CLASS-330-13
		US-PATENT-3,887,345			US-PATENT-3,894,289			US-PATENT-CLASS-330-18
		NASA-CASE-GSC-10984-1			NASA-CASE-XMS-01330			US-PATENT-CLASS-330-40
		US-PATENT-APPL-SN-127480			US-PATENT-APPL-SN-153624			US-PATENT-CLASS-330-63
N75-26373*	c 37	US-PATENT-CLASS-117-126GM	N75-27760*	c 54	US-PATENT-APPL-SN-322565	N75-30502*	c 35	US-PATENT-3,898,578
		US-PATENT-CLASS-117-126R			US-PATENT-CLASS-219-125			NASA-CASE-MFS-21616-1
		US-PATENT-CLASS-161-92			US-PATENT-3,275,794			US-PATENT-APPL-SN-464723
		US-PATENT-CLASS-161-93			NASA-CASE-NPO-13231-1			US-PATENT-CLASS-330-207A
N75-26374*	c 37	US-PATENT-CLASS-161-93	N75-27761*	c 54	US-PATENT-APPL-SN-428993	N75-30504*	c 35	US-PATENT-CLASS-330-24
		US-PATENT-CLASS-29-182.2			US-PATENT-CLASS-250-343			US-PATENT-3,899,745
		US-PATENT-CLASS-29-182.5			US-PATENT-CLASS-250-345			NASA-CASE-NPO-13504-1
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-250-432			US-PATENT-APPL-SN-483852
N75-26375*	c 37	US-PATENT-CLASS-65-3	N75-27762*	c 54	US-PATENT-3,891,848	N75-30505*	c 35	US-PATENT-CLASS-33-96
		US-PATENT-CLASS-75-DIG.1			NASA-CASE-NPO-13386-1			US-PATENT-CLASS-333-21R
		US-PATENT-CLASS-75-200			US-PATENT-APPL-SN-475336			US-PATENT-CLASS-333-83BT
		US-PATENT-CLASS-75-208R			US-PATENT-CLASS-214-1B			US-PATENT-CLASS-333-98R
N75-26376*	c 37	US-PATENT-CLASS-75-212	N75-27763*	c 54	US-PATENT-CLASS-214-1CM	N75-30506*	c 35	US-PATENT-3,902,143
		US-PATENT-CLASS-75-214			US-PATENT-CLASS-318-640			NASA-CASE-KSC-10782-1
		US-PATENT-CLASS-75-222			US-PATENT-3,888,362			US-PATENT-APPL-SN-400467
		US-PATENT-3,887,365			NASA-CASE-MSC-13601-2			US-PATENT-CLASS-178-DIG.1
N75-26377*	c 37	US-PATENT-CLASS-178-6.8	N75-27764*	c 54	US-PATENT-APPL-SN-395495	N75-30507*	c 35	US-PATENT-CLASS-178-6.8
		US-PATENT-3,900,705			US-PATENT-CLASS-351-38			NASA-CASE-ARC-10802-1
		NASA-CASE-MFS-21931-1			US-PATENT-CLASS-351-38			US-PATENT-APPL-SN-484208
		US-PATENT-APPL-SN-464721			US-PATENT-3,891,311			US-PATENT-CLASS-205-343
N75-26378*	c 37	US-PATENT-CLASS-250-359	N75-27765*	c 54	US-PATENT-CLASS-128-2.05Z	N75-30508*	c 35	US-PATENT-CLASS-250-351
		US-PATENT-CLASS-250-460			US-PATENT-APPL-SN-427395			US-PATENT-CLASS-250-373
		US-PATENT-CLASS-250-492			US-PATENT-CLASS-128-2V			US-PATENT-CLASS-356-51
		US-PATENT-3,889,122			US-PATENT-CLASS-128-24A			US-PATENT-3,899,252
N75-26379*	c 37	US-PATENT-CLASS-250-492	N75-27766*	c 54	US-PATENT-CLASS-74-471XY	N75-30509*	c 35	NASA-CASE-LEW-12078-1
		US-PATENT-3,889,122			US-PATENT-3,893,449			US-PATENT-APPL-SN-447124
		NASA-CASE-MFS-22758-1			US-PATENT-3,893,458			US-PATENT-CLASS-73-194M
		US-PATENT-APPL-SN-581514			NASA-CASE-NPO-13313-1			US-PATENT-CLASS-73-195
N75-27040*	c 18	US-PATENT-CLASS-250-359	N75-27767*	c 54	US-PATENT-APPL-SN-449153	N75-30510*	c 35	US-PATENT-3,898,882
		US-PATENT-CLASS-250-460			US-PATENT-CLASS-128-145.8			NASA-CASE-MSC-12531-1
		US-PATENT-CLASS-250-492			US-PATENT-CLASS-55-DIG.35			US-PATENT-APPL-SN-354612
		US-PATENT-3,889,122			US-PATENT-3,893,458			US-PATENT-CLASS-307-204
N75-27041*	c 18	US-PATENT-3,206,897	N75-28135*	c 24	US-PATENT-21077-1	N75-30511*	c 35	US-PATENT-CLASS-307-211
		NASA-CASE-MSC-14245-1			US-PATENT-APPL-SN-127481			US-PATENT-CLASS-307-219
		US-PATENT-APPL-SN-389916			US-PATENT-CLASS-228-190			US-PATENT-CLASS-328-61
		US-PATENT-CLASS-214-1CM			US-PATENT-CLASS-228-193			US-PATENT-CLASS-328-62
N75-27125*	c 26	US-PATENT-3,893,573	N75-28136*	c 24	US-PATENT-3,894,677	N75-30512*	c 35	US-PATENT-3,900,741
		NASA-CASE-XMF-05868			NASA-CASE-HQN-10462			NASA-CASE-NPO-13308-1
		US-PATENT-APPL-SN-512509			US-PATENT-APPL-SN-773530			US-PATENT-APPL-SN-455165
		US-PATENT-CLASS-260-29.6			US-PATENT-CLASS-118-43			US-PATENT-CLASS-310-4
N75-27126*	c 26	US-PATENT-3,475,442	N75-29236*	c 26	US-PATENT-3,603,285	N75-30513*	c 35	US-PATENT-CLASS-331-DIG.1
		NASA-CASE-XMF-06053			NASA-CASE-XNP-01311			US-PATENT-3,899,696
		US-PATENT-APPL-SN-542192			US-PATENT-APPL-SN-430496			NASA-CASE-LEW-11078-3
		US-PATENT-CLASS-75-173			US-PATENT-CLASS-148-127			US-PATENT-APPL-SN-405346
N75-27127*	c 26	US-PATENT-3,411,900	N75-29263* #	c 27	US-PATENT-3,390,023	N75-30876*	c 73	US-PATENT-CLASS-308-121
		NASA-CASE-XNP-03878			NASA-CASE-LAR-11397-1			US-PATENT-CLASS-308-73
		US-PATENT-APPL-SN-488745			US-PATENT-APPL-SN-532784			US-PATENT-3,899,224
		US-PATENT-CLASS-75-173			NASA-CASE-ARC-10266-1			NASA-CASE-LEW-11227-1
N75-27160*	c 27	US-PATENT-3,373,016	N75-29318*	c 33	US-PATENT-APPL-SN-453241	N75-31329*	c 33	US-PATENT-APPL-SN-146939
		NASA-CASE-MFS-22324-1			US-PATENT-APPL-SN-585988			US-PATENT-CLASS-244-1SS
		US-PATENT-APPL-SN-350250			US-PATENT-CLASS-315-111			US-PATENT-CLASS-250-493
		US-PATENT-CLASS-106-48			US-PATENT-3,469,143			US-PATENT-CLASS-250-496
N75-27249*	c 33	US-PATENT-CLASS-106-54	N75-29380*	c 35	NASA-CASE-MFS-22060-1	N75-31329*	c 33	US-PATENT-3,899,680
		US-PATENT-CLASS-117-129			US-PATENT-APPL-SN-521603			NASA-CASE-NPO-13423-1
		US-PATENT-3,891,452			US-PATENT-CLASS-23-254E			US-PATENT-APPL-SN-470429
		NASA-CASE-XMS-02744			US-PATENT-CLASS-23-255E			
N75-27250*	c 33	US-PATENT-APPL-SN-351950	N75-29381*	c 35	US-PATENT-CLASS-250-83.3	N75-31329*	c 33	US-PATENT-CLASS-250-496
		US-PATENT-CLASS-200-129			US-PATENT-3,469,143			US-PATENT-3,899,680
		US-PATENT-3,281,558			US-PATENT-APPL-SN-521603			US-PATENT-CLASS-250-496
		NASA-CASE-XNP-01296			US-PATENT-CLASS-23-254E			US-PATENT-CLASS-250-496

			US-PATENT-CLASS-128-2S				US-PATENT-CLASS-279-1B	N76-14429*	c 35	NASA-CASE-LAR-11552-1
			US-PATENT-CLASS-338-2				US-PATENT-CLASS-279-107			US-PATENT-APPL-SN-518685
			US-PATENT-CLASS-73-88.5				US-PATENT-CLASS-279-89			US-PATENT-CLASS-73-182
			US-PATENT-3,905,356				US-PATENT-CLASS-29-26A			US-PATENT-CLASS-73-212
N75-31330*	c 33		NASA-CASE-NPO-13426-1				US-PATENT-CLASS-294-116	N76-14430*	c 35	US-PATENT-3,914,997
			US-PATENT-APPL-SN-45053				US-PATENT-CLASS-294-86.33			NASA-CASE-NPO-13170-1
			US-PATENT-CLASS-307-225R				US-PATENT-3,907,312			US-PATENT-APPL-SN-382261
			US-PATENT-CLASS-328-41	N75-33640*	c 52		NASA-CASE-LEW-12051-1			US-PATENT-CLASS-338-6
			US-PATENT-3,906,374				US-PATENT-APPL-SN-397478			US-PATENT-CLASS-73-88.5R
N75-31331*	c 33		NASA-CASE-NPO-11156-2				US-PATENT-CLASS-128-230	N76-14431*	c 35	US-PATENT-3,914,991
			US-PATENT-APPL-SN-174684				US-PATENT-CLASS-128-305			NASA-CASE-LEW-11915-1
			US-PATENT-CLASS-307-238				US-PATENT-3,906,954			US-PATENT-APPL-SN-474744
			US-PATENT-CLASS-340-173CA	N76-14158*	c 15		NASA-CASE-LAR-11051-1			US-PATENT-CLASS-137-15.2
			US-PATENT-CLASS-357-24				US-PATENT-APPL-SN-384773			US-PATENT-CLASS-235-151.34
			US-PATENT-CLASS-357-7				US-PATENT-CLASS-244-165			US-PATENT-CLASS-60-39.29
			US-PATENT-3,906,296				US-PATENT-CLASS-244-3.21			US-PATENT-3,911,260
N75-31332*	c 33		NASA-CASE-NPO-13348-1				US-PATENT-CLASS-74-5.7	N76-14447*	c 36	US-PATENT-APPL-SN-10642-1
			US-PATENT-APPL-SN-452770				US-PATENT-3,915,416			US-PATENT-APPL-SN-446562
			US-PATENT-CLASS-250-238	N76-14186*	c 18		NASA-CASE-MS-12559-1			US-PATENT-CLASS-356-106R
			US-PATENT-CLASS-250-370				US-PATENT-APPL-SN-370582			US-PATENT-CLASS-356-28
			US-PATENT-CLASS-357-5				US-PATENT-CLASS-178-DIG.20			US-PATENT-3,915,572
			US-PATENT-3,906,231				US-PATENT-CLASS-244-161	N76-14460*	c 37	NASA-CASE-MFS-19194-1
N75-31426*	c 36		NASA-CASE-ARC-10370-1				US-PATENT-CLASS-33-286			US-PATENT-APPL-SN-483850
			US-PATENT-APPL-SN-137391				US-PATENT-CLASS-35-12			US-PATENT-CLASS-285-226
			US-PATENT-CLASS-331-94.5G				US-PATENT-CLASS-356-153			US-PATENT-CLASS-285-265
			US-PATENT-CLASS-331-94.5P				US-PATENT-3,910,533			US-PATENT-3,915,482
			US-PATENT-3,906,397	N76-14190*	c 20		NASA-CASE-LEW-11593-1	N76-14461*	c 37	NASA-CASE-LEW-11694-2
N75-31427*	c 36		NASA-CASE-NPO-13175-1				US-PATENT-APPL-SN-363691			US-PATENT-APPL-SN-352381
			US-PATENT-APPL-SN-374423				US-PATENT-CLASS-60-39.23			US-PATENT-APPL-SN-462903
			US-PATENT-CLASS-331-94.5C				US-PATENT-CLASS-60-39.29			US-PATENT-CLASS-29-421
			US-PATENT-CLASS-350-161				US-PATENT-CLASS-60-39.74R			US-PATENT-CLASS-72-363
			US-PATENT-CLASS-350-96WG				US-PATENT-3,910,035			US-PATENT-CLASS-72-54
N75-31446*	c 37		US-PATENT-3,906,393	N76-14191*	c 20		NASA-CASE-LEW-11118-2			US-PATENT-CLASS-72-63
			NASA-CASE-LEW-11925-1				US-PATENT-APPL-SN-436316	N76-14463*	c 37	US-PATENT-3,914,969
			US-PATENT-APPL-SN-450505				US-PATENT-CLASS-239-127.3			NASA-CASE-MFS-22323-1
			US-PATENT-CLASS-308-191				US-PATENT-CLASS-60-265			US-PATENT-APPL-SN-474745
			US-PATENT-CLASS-308-195				US-PATENT-CLASS-60-267			US-PATENT-CLASS-137-515.3
			US-PATENT-CLASS-308-201				US-PATENT-3,910,039			US-PATENT-CLASS-137-550
			US-PATENT-3,905,660	N76-14203*	c 24		NASA-CASE-NPO-12122-1			US-PATENT-CLASS-210-429
N75-32441*	c 36		NASA-CASE-NPO-13449-1				US-PATENT-APPL-SN-401921			US-PATENT-CLASS-251-149.6
			US-PATENT-APPL-SN-420813				US-PATENT-CLASS-149-36			US-PATENT-3,910,307
			US-PATENT-CLASS-310-11				US-PATENT-CLASS-423-407	N76-14595*	c 44	NASA-CASE-MFS-22562-1
			US-PATENT-CLASS-330-4.3				US-PATENT-3,919,014			US-PATENT-APPL-SN-458484
			US-PATENT-CLASS-331-94.5PE	N76-14204*	c 24		NASA-CASE-MS-12568-1			US-PATENT-CLASS-126-270
			US-PATENT-CLASS-331-94.5G				US-PATENT-APPL-SN-325784			US-PATENT-CLASS-136-206
			US-PATENT-3,906,398				US-PATENT-CLASS-136-146			US-PATENT-CLASS-204-32R
N75-32465* #	c 37		NASA-CASE-ARC-10907-1				US-PATENT-CLASS-136-148			US-PATENT-CLASS-204-33
			US-PATENT-APPL-SN-619986				US-PATENT-CLASS-162-102			US-PATENT-CLASS-204-38A
N75-32581*	c 44		NASA-CASE-MFS-21628-1				US-PATENT-CLASS-162-153			US-PATENT-CLASS-204-40
			US-PATENT-APPL-SN-421702				US-PATENT-CLASS-162-222			US-PATENT-CLASS-204-42
			US-PATENT-CLASS-126-271				US-PATENT-CLASS-162-228			US-PATENT-CLASS-204-49
			US-PATENT-CLASS-165-105				US-PATENT-3,910,814			US-PATENT-CLASS-29-194
			US-PATENT-CLASS-244-173	N76-14264*	c 27		NASA-CASE-MS-14182-1			US-PATENT-CLASS-29-195
			US-PATENT-CLASS-60-641				US-PATENT-APPL-SN-419748			US-PATENT-CLASS-29-197
			US-PATENT-CLASS-60-659				US-PATENT-CLASS-403-179	N76-14600*	c 44	US-PATENT-3,920,413
			US-PATENT-3,903,699				US-PATENT-CLASS-403-28			NASA-CASE-LEW-11065-2
N75-33181*	c 24		NASA-CASE-LEW-11484-1				US-PATENT-CLASS-428-109			US-PATENT-APPL-SN-154930
			US-PATENT-APPL-SN-356554				US-PATENT-CLASS-428-212			US-PATENT-APPL-SN-371322
			US-PATENT-CLASS-117-105.2				US-PATENT-CLASS-428-214			US-PATENT-CLASS-136-89
			US-PATENT-CLASS-117-38				US-PATENT-CLASS-428-416			US-PATENT-CLASS-29-572
			US-PATENT-CLASS-117-46FS				US-PATENT-CLASS-428-447			US-PATENT-3,912,540
			US-PATENT-CLASS-117-8.5				US-PATENT-CLASS-428-77	N76-14601*	c 44	NASA-CASE-MFS-22749-1
			US-PATENT-CLASS-29-DIG.24				US-PATENT-3,920,339			US-PATENT-APPL-SN-483857
			US-PATENT-CLASS-29-DIG.39	N76-14284*	c 31		NASA-CASE-NPO-13435-1			US-PATENT-CLASS-136-114
			US-PATENT-CLASS-29-527.2				US-PATENT-APPL-SN-478803			US-PATENT-CLASS-136-162
			US-PATENT-CLASS-72-46				US-PATENT-CLASS-62-129			US-PATENT-CLASS-136-182
			US-PATENT-3,906,769				US-PATENT-CLASS-62-49			US-PATENT-CLASS-136-90
N75-33342*	c 34		NASA-CASE-MS-14273-1				US-PATENT-CLASS-73-295			US-PATENT-3,912,541
			US-PATENT-APPL-SN-385522				US-PATENT-3,914,950	N76-14602*	c 44	NASA-CASE-NPO-13497-1
			US-PATENT-CLASS-210-234	N76-14321*	c 32		NASA-CASE-LAR-11021-1			US-PATENT-APPL-SN-526448
			US-PATENT-CLASS-210-259				US-PATENT-APPL-SN-453115			US-PATENT-CLASS-126-271
			US-PATENT-CLASS-210-304				US-PATENT-CLASS-325-304			US-PATENT-CLASS-237-1A
			US-PATENT-CLASS-210-333				US-PATENT-CLASS-325-306			US-PATENT-CLASS-350-211
			US-PATENT-CLASS-210-340				US-PATENT-CLASS-325-372			US-PATENT-3,915,148
			US-PATENT-CLASS-210-411				US-PATENT-CLASS-328-145	N76-14757*	c 52	NASA-CASE-MS-14180-1
			US-PATENT-CLASS-210-425				US-PATENT-CLASS-343-176			US-PATENT-APPL-SN-354406
			US-PATENT-CLASS-210-512				US-PATENT-3,916,316			US-PATENT-CLASS-128-2.06R
			US-PATENT-CLASS-210-82	N76-14371*	c 33		NASA-CASE-KSC-10834-1			US-PATENT-CLASS-128-2.1A
			US-PATENT-3,907,686				US-PATENT-APPL-SN-536535			US-PATENT-CLASS-128-2H
N75-33367*	c 35		NASA-CASE-LAR-10629-1				US-PATENT-CLASS-178-69.5R			US-PATENT-3,910,257
			US-PATENT-APPL-SN-402867				US-PATENT-CLASS-178-88	N76-14804*	c 54	NASA-CASE-MS-14640-1
			US-PATENT-CLASS-116-114AH				US-PATENT-CLASS-328-190			US-PATENT-APPL-SN-526449
			US-PATENT-CLASS-73-12				US-PATENT-CLASS-328-63			US-PATENT-CLASS-128-2F
			US-PATENT-CLASS-73-170R				US-PATENT-3,916,084			US-PATENT-CLASS-73-421R
			US-PATENT-CLASS-73-432PS	N76-14372*	c 33		NASA-CASE-LAR-10970-1			US-PATENT-3,915,012
			US-PATENT-3,896,758				US-PATENT-APPL-SN-527790	N76-14818*	c 60	NASA-CASE-NPO-13422-1
N75-33368*	c 35		NASA-CASE-LAR-11326-1				US-PATENT-CLASS-343-770			US-PATENT-APPL-SN-521601
			US-PATENT-APPL-SN-491416				US-PATENT-CLASS-343-797			US-PATENT-CLASS-340-147C
			US-PATENT-CLASS-195-103.5R				US-PATENT-CLASS-343-846			US-PATENT-CLASS-340-147R
			US-PATENT-3,907,646				US-PATENT-3,919,710			US-PATENT-3,916,380
N75-33369*	c 35		NASA-CASE-LAR-11263-1	N76-14373*	c 33		NASA-CASE-NPO-13451-1	N76-14931*	c 75	NASA-CASE-MFS-22287-1
			US-PATENT-APPL-SN-472775				US-PATENT-APPL-SN-501012			US-PATENT-APPL-SN-438147
			US-PATENT-CLASS-73-141A				US-PATENT-CLASS-235-92SH			US-PATENT-CLASS-315-111.6
			US-PATENT-3,906,788				US-PATENT-CLASS-307-221R			US-PATENT-CLASS-73-12
N75-33395*	c 37		NASA-CASE-MFS-22283-1				US-PATENT-CLASS-328-37			US-PATENT-CLASS-89-8
			US-PATENT-APPL-SN-387095				US-PATENT-3,911,330			US-PATENT-3,916,761

N76-15189*	c 12	NASA-CASE-MSC-12611-1 US-PATENT-APPL-SN-446560 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-293 US-PATENT-CLASS-427-162 US-PATENT-CLASS-427-250 US-PATENT-CLASS-427-227	US-PATENT-APPL-SN-500980 US-PATENT-CLASS-250-499 US-PATENT-CLASS-250-500 US-PATENT-CLASS-3,924,137	US-PATENT-CLASS-244-172 US-PATENT-CLASS-3,929,306
N76-15268*	c 23	NASA-CASE-MFS-22355-1 US-PATENT-APPL-SN-487852 US-PATENT-CLASS-260-32.6N US-PATENT-CLASS-260-32.8N US-PATENT-CLASS-260-346.3 US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-571 US-PATENT-CLASS-260-78TF US-PATENT-CLASS-3,925,100	N76-16014* c 02 NASA-CASE-LAR-11575-1 US-PATENT-APPL-SN-527727 US-PATENT-CLASS-244-139 US-PATENT-CLASS-3,930,628	N76-17317* c 34 NASA-CASE-LAR-10799-2 US-PATENT-APPL-SN-301419 US-PATENT-APPL-SN-419319 US-PATENT-CLASS-165-105 US-PATENT-CLASS-165-106 US-PATENT-CLASS-237-60 US-PATENT-CLASS-244-117A US-PATENT-CLASS-244-135R US-PATENT-CLASS-417-209 US-PATENT-CLASS-3,929,305
N76-15310*	c 27	NASA-CASE-ARC-10714-1 US-PATENT-APPL-SN-398885 US-PATENT-CLASS-260-2.5AK US-PATENT-CLASS-427-196 US-PATENT-CLASS-427-426 US-PATENT-CLASS-428-303 US-PATENT-CLASS-3,916,060	N76-16228* c 27 NASA-CASE-NPO-12061-1 US-PATENT-APPL-SN-45549 US-PATENT-CLASS-260-879 US-PATENT-CLASS-260-900 US-PATENT-CLASS-260-92.1 US-PATENT-CLASS-3,931,132	N76-17656* c 45 NASA-CASE-LAR-11675-1 US-PATENT-APPL-SN-557448 US-PATENT-CLASS-178-DIG.1 US-PATENT-CLASS-178-DIG.8 US-PATENT-CLASS-178-6.8 US-PATENT-CLASS-250-373 US-PATENT-CLASS-340-237S US-PATENT-CLASS-356-207 US-PATENT-CLASS-3,931,462
N76-15311*	c 27	NASA-CASE-NPO-13120-1 US-PATENT-APPL-SN-348422 US-PATENT-CLASS-29-182.5 US-PATENT-CLASS-3,926,567	N76-16229* c 27 NASA-CASE-LEW-11179-1 US-PATENT-APPL-SN-357312 US-PATENT-CLASS-29-195A US-PATENT-CLASS-427-203 US-PATENT-CLASS-427-204 US-PATENT-CLASS-427-205 US-PATENT-CLASS-427-270 US-PATENT-CLASS-427-275 US-PATENT-CLASS-427-287 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-469 US-PATENT-CLASS-428-539 US-PATENT-CLASS-3,931,447	N76-17951* c 75 NASA-CASE-MFS-22145-2 US-PATENT-APPL-SN-367606 US-PATENT-APPL-SN-500982 US-PATENT-CLASS-124-1 US-PATENT-CLASS-124-11R US-PATENT-CLASS-89-8 US-PATENT-CLASS-3,929,119
N76-15329*	c 32	NASA-CASE-GSC-11968-1 US-PATENT-APPL-SN-512825 US-PATENT-CLASS-343-779 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-876 US-PATENT-CLASS-3,927,408	N76-16230* c 27 NASA-CASE-ARC-10813-1 US-PATENT-APPL-SN-437556 US-PATENT-CLASS-264-331 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-911 US-PATENT-CLASS-428-920 US-PATENT-CLASS-428-921 US-PATENT-CLASS-3,928,708	N76-18117* c 07 NASA-CASE-LAR-11674-1 US-PATENT-APPL-SN-331759 US-PATENT-APPL-SN-488616 US-PATENT-CLASS-181-33HC US-PATENT-CLASS-239-265.11 US-PATENT-CLASS-3,938,742
N76-15330*	c 32	NASA-CASE-LAR-11112-1 US-PATENT-APPL-SN-491419 US-PATENT-CLASS-343-786 US-PATENT-CLASS-3,924,237	N76-16249* c 32 NASA-CASE-MSC-14557-1 US-PATENT-APPL-SN-428994 US-PATENT-APPL-SN-464720 US-PATENT-CLASS-178-69C US-PATENT-CLASS-178-88 US-PATENT-CLASS-325-321 US-PATENT-CLASS-3,924,068	N76-18245* c 25 NASA-CASE-NPO-13063-1 US-PATENT-APPL-SN-227977 US-PATENT-CLASS-23-230M US-PATENT-CLASS-23-230R US-PATENT-CLASS-23-232C US-PATENT-CLASS-23-253R US-PATENT-CLASS-23-254R US-PATENT-CLASS-23-255R US-PATENT-CLASS-235-151.13 US-PATENT-CLASS-73-23.1 US-PATENT-CLASS-3,860,393
N76-15373*	c 33	NASA-CASE-LEW-11938-1 US-PATENT-APPL-SN-544811 US-PATENT-CLASS-317-258 US-PATENT-CLASS-317-261 US-PATENT-CLASS-3,924,164	N76-16331* c 33 NASA-CASE-MSC-14649-1 US-PATENT-APPL-SN-505819 US-PATENT-CLASS-324-79D US-PATENT-CLASS-328-134 US-PATENT-CLASS-3,924,183	N76-18257* c 26 NASA-CASE-MFS-22907-1 US-PATENT-APPL-SN-518546 US-PATENT-CLASS-324-34R US-PATENT-CLASS-3,938,037
N76-15431*	c 35	NASA-CASE-MSC-13802-2 US-PATENT-APPL-SN-189438 US-PATENT-APPL-SN-475338 US-PATENT-CLASS-250-251 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-423 US-PATENT-CLASS-3,916,187	N76-16332* c 33 NASA-CASE-GSC-11849-1 US-PATENT-APPL-SN-470428 US-PATENT-CLASS-174-145 US-PATENT-CLASS-174-148 US-PATENT-CLASS-339-143C US-PATENT-CLASS-339-198R US-PATENT-CLASS-339-242 US-PATENT-CLASS-339-275R US-PATENT-CLASS-3,931,456	N76-18295* c 32 NASA-CASE-GSC-11862-1 US-PATENT-APPL-SN-500979 US-PATENT-CLASS-343-837 US-PATENT-CLASS-343-840 US-PATENT-CLASS-343-912 US-PATENT-CLASS-343-915 US-PATENT-CLASS-3,938,162
N76-15432*	c 35	NASA-CASE-LAR-11435-1 US-PATENT-APPL-SN-522556 US-PATENT-CLASS-310-8.2 US-PATENT-CLASS-73-1R US-PATENT-CLASS-3,924,444	N76-16390* c 35 NASA-CASE-NPO-13388-1 US-PATENT-APPL-SN-522552 US-PATENT-CLASS-324-43R US-PATENT-CLASS-3,924,176	N76-18345* c 33 NASA-CASE-NPO-13385-1 US-PATENT-APPL-SN-501011 US-PATENT-CLASS-340-347AD US-PATENT-CLASS-3,938,188
N76-15433*	c 35	NASA-CASE-GSC-11892-1 US-PATENT-APPL-SN-502135 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-489 US-PATENT-CLASS-3,927,324	N76-16391* c 35 NASA-CASE-NPO-10166-2 US-PATENT-APPL-SN-192803 US-PATENT-APPL-SN-668116 US-PATENT-CLASS-360-10 US-PATENT-CLASS-360-101 US-PATENT-CLASS-360-35 US-PATENT-CLASS-360-9 US-PATENT-CLASS-3,924,267	N76-18353* c 33 NASA-CASE-GSC-11925-1 US-PATENT-APPL-SN-538983 US-PATENT-CLASS-360-26 US-PATENT-CLASS-360-51 US-PATENT-CLASS-3,938,182
N76-15434*	c 35	NASA-CASE-LEW-11072-2 US-PATENT-APPL-SN-254323 US-PATENT-CLASS-136-211 US-PATENT-CLASS-136-212 US-PATENT-CLASS-136-225 US-PATENT-CLASS-3,925,104	N76-16392* c 35 NASA-CASE-LAR-11458-1 US-PATENT-APPL-SN-504225 US-PATENT-CLASS-294-1R US-PATENT-CLASS-294-19R US-PATENT-CLASS-3,929,364	N76-18364* c 34 NASA-CASE-LAR-11570-1 US-PATENT-APPL-SN-482967 US-PATENT-CLASS-244-23D US-PATENT-CLASS-60-316 US-PATENT-CLASS-3,940,097
N76-15435*	c 35	NASA-CASE-NPO-13506-1 US-PATENT-APPL-SN-483851 US-PATENT-CLASS-343-909 US-PATENT-CLASS-3,924,239	N76-16393* c 35 NASA-CASE-GSC-11889-1 US-PATENT-APPL-SN-502124 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-287 US-PATENT-CLASS-250-288 US-PATENT-CLASS-250-385 US-PATENT-CLASS-250-423 US-PATENT-CLASS-3,931,516	N76-18374* c 34 NASA-CASE-MFS-22938-1 US-PATENT-APPL-SN-542754 US-PATENT-CLASS-250-335 US-PATENT-CLASS-3,940,621
N76-15436*	c 35	NASA-CASE-GSC-11895-1 US-PATENT-APPL-SN-511887 US-PATENT-CLASS-331-3 US-PATENT-CLASS-331-94 US-PATENT-CLASS-3,924,200	N76-16446* # c 37 NASA-CASE-NPO-13342-1 US-PATENT-APPL-SN-390049	N76-18400* c 35 NASA-CASE-LAR-10208-1 US-PATENT-APPL-SN-483858 US-PATENT-CLASS-73-103 US-PATENT-CLASS-73-95 US-PATENT-CLASS-3,938,373
N76-15457*	c 37	NASA-CASE-MFS-22707-1 US-PATENT-APPL-SN-535410 US-PATENT-CLASS-214-1R US-PATENT-CLASS-74-384 US-PATENT-CLASS-74-665B US-PATENT-CLASS-3,922,930	N76-16461* c 44 NASA-CASE-MFS-22002-1 US-PATENT-APPL-SN-452769 US-PATENT-CLASS-136-202 US-PATENT-CLASS-136-210 US-PATENT-CLASS-165-105 US-PATENT-CLASS-310-4 US-PATENT-CLASS-3,931,532	N76-18401* c 35 NASA-CASE-NPO-13396-1 US-PATENT-APPL-SN-563283 US-PATENT-CLASS-55-261 US-PATENT-CLASS-73-28 US-PATENT-CLASS-73-421.5R US-PATENT-CLASS-3,938,367
N76-15460*	c 37	NASA-CASE-MFS-22022-1 US-PATENT-APPL-SN-405341 US-PATENT-CLASS-214-ICM US-PATENT-CLASS-3,923,166	N76-17185* c 18 NASA-CASE-MSC-12561-1 US-PATENT-APPL-SN-448323 US-PATENT-CLASS-244-162	N76-18402* c 35 NASA-CASE-MFS-22517-1 US-PATENT-APPL-SN-506804 US-PATENT-CLASS-350-3.5 US-PATENT-CLASS-3,937,555
N76-15461*	c 37	NASA-CASE-LEW-11076-4 US-PATENT-APPL-SN-238264 US-PATENT-APPL-SN-346483 US-PATENT-APPL-SN-445178 US-PATENT-CLASS-308-122 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-72 US-PATENT-CLASS-308-73 US-PATENT-CLASS-308-9 US-PATENT-CLASS-3,926,482	N76-18403* c 35 NASA-CASE-ARC-10322-1 US-PATENT-APPL-SN-484209 US-PATENT-CLASS-23-254EF US-PATENT-CLASS-3,938,956	N76-18427* c 36 NASA-CASE-NPO-11945-1 US-PATENT-APPL-SN-269450 US-PATENT-CLASS-331-94.5
N76-15860*	c 72	NASA-CASE-LEW-11866-1		

				US-PATENT-CLASS-332-7.51	N76-19436*	c 37	.....	NASA-CASE-MFS-20607-1		US-PATENT-CLASS-33-1G		
				US-PATENT-CLASS-350-150				US-PATENT-APPL-SN-478800		US-PATENT-CLASS-33-174B		
				US-PATENT-CLASS-350-160				US-PATENT-CLASS-222-145		US-PATENT-3,945,879		
				US-PATENT-CLASS-423-352				US-PATENT-CLASS-259-44C	N76-21742*	c 45	.....	NASA-CASE-NPO-13474-1
				US-PATENT-CLASS-423-644				US-PATENT-3,941,355				US-PATENT-APPL-SN-521817
				US-PATENT-3,806,834	N76-19437*	c 37	.....	NASA-CASE-MSC-12615-1				US-PATENT-CLASS-23-254E
N76-18428*	c 36	.....		NASA-CASE-NPO-13544-1				US-PATENT-APPL-SN-491417				US-PATENT-CLASS-250-574
				US-PATENT-APPL-SN-533555				US-PATENT-CLASS-244-117A				US-PATENT-CLASS-356-37
				US-PATENT-CLASS-331-94.5C				US-PATENT-CLASS-244-163				US-PATENT-3,945,801
				US-PATENT-CLASS-350-96WG				US-PATENT-CLASS-29-432	N76-21914*	c 60	.....	NASA-CASE-NPO-13139-1
				US-PATENT-3,939,439				US-PATENT-CLASS-29-433				US-PATENT-APPL-SN-393524
N76-18454*	c 37	.....		NASA-CASE-MFS-23047-1				US-PATENT-CLASS-29-526				US-PATENT-CLASS-235-153AE
				US-PATENT-APPL-SN-521602				US-PATENT-CLASS-52-705				US-PATENT-CLASS-340-172.5
				US-PATENT-CLASS-173-132				US-PATENT-CLASS-52-758F				US-PATENT-3,950,729
				US-PATENT-CLASS-29-81D				US-PATENT-3,936,927	N76-22154*	c 02	.....	NASA-CASE-LAR-10585-1
				US-PATENT-CLASS-72-453	N76-19785*	c 52	.....	NASA-CASE-LAR-11667-1				US-PATENT-APPL-SN-197183
				US-PATENT-CLASS-73-399				US-PATENT-APPL-SN-583487				US-PATENT-CLASS-244-35R
				US-PATENT-3,937,055				US-PATENT-CLASS-128-DIG.20				US-PATENT-CLASS-244-40R
N76-18455*	c 37	.....		NASA-CASE-MSC-14435-1				US-PATENT-CLASS-128-26				US-PATENT-3,952,971
				US-PATENT-APPL-SN-450500				US-PATENT-3,937,215	N76-22245*	c 17	.....	NASA-CASE-GSC-11868-1
				US-PATENT-CLASS-228-193	N76-19888*	c 66	.....	NASA-CASE-MFS-22631-1				US-PATENT-APPL-SN-565290
				US-PATENT-CLASS-228-206				US-PATENT-APPL-SN-531572				US-PATENT-CLASS-178-69.5
				US-PATENT-CLASS-228-214				US-PATENT-CLASS-340-38P				US-PATENT-CLASS-328-155
				US-PATENT-CLASS-228-238				US-PATENT-CLASS-356-162				US-PATENT-CLASS-340-147SY
				US-PATENT-3,937,387				US-PATENT-CLASS-356-167				US-PATENT-CLASS-340-207P
N76-18456*	c 37	.....		NASA-CASE-LAR-11224-1				US-PATENT-CLASS-356-71				US-PATENT-3,953,674
				US-PATENT-APPL-SN-450502				US-PATENT-3,930,735	N76-22284*	c 19	.....	NASA-CASE-MFS-22905-1
				US-PATENT-CLASS-134-21	N76-19935*	c 74	.....	NASA-CASE-MFS-21672-1				US-PATENT-APPL-SN-518545
				US-PATENT-CLASS-134-37				US-PATENT-APPL-SN-354060				US-PATENT-CLASS-188-1B
				US-PATENT-CLASS-19-205				US-PATENT-CLASS-356-123				US-PATENT-CLASS-248-22
				US-PATENT-CLASS-209-250				US-PATENT-CLASS-356-124				US-PATENT-CLASS-248-358R
				US-PATENT-CLASS-209-300				US-PATENT-3,938,892				US-PATENT-3,952,980
				US-PATENT-CLASS-209-305	N76-20114*	c 04	.....	NASA-CASE-LAR-11387-1	N76-22296*	c 20	.....	NASA-CASE-MFS-19220-1
				US-PATENT-3,937,661				US-PATENT-APPL-SN-531647				US-PATENT-APPL-SN-571821
N76-18457*	c 37	.....		NASA-CASE-NPO-13402-1				US-PATENT-CLASS-33-356				US-PATENT-CLASS-254-124
				US-PATENT-APPL-SN-387342				US-PATENT-CLASS-75-178R				US-PATENT-CLASS-254-93R
				US-PATENT-CLASS-123-DIG.12				US-PATENT-3,943,763				US-PATENT-CLASS-89-1.801
				US-PATENT-CLASS-123-119E	N76-20480*	c 37	.....	NASA-CASE-NPO-13059-1				US-PATENT-3,952,998
				US-PATENT-CLASS-123-120				NASA-CASE-NPO-13436-1	N76-22309*	c 24	.....	NASA-CASE-LEW-11930-1
				US-PATENT-CLASS-123-121				US-PATENT-APPL-SN-513690				US-PATENT-APPL-SN-513611
				US-PATENT-CLASS-123-89A				US-PATENT-CLASS-81-56				US-PATENT-CLASS-252-12
				US-PATENT-3,906,913				US-PATENT-CLASS-81-57.31				US-PATENT-3,953,343
N76-18458*	c 37	.....		NASA-CASE-LEW-11860-1				US-PATENT-3,942,398	N76-22323*	c 25	.....	NASA-CASE-ARC-10760-1
				US-PATENT-APPL-SN-527728	N76-20958*	c 74	.....	NASA-CASE-ARC-10631-1				US-PATENT-APPL-SN-526438
				US-PATENT-CLASS-204-157.1H				US-PATENT-APPL-SN-514546				US-PATENT-CLASS-250-343
				US-PATENT-CLASS-250-527				US-PATENT-CLASS-250-343				US-PATENT-CLASS-250-344
				US-PATENT-3,939,048				US-PATENT-CLASS-250-573				US-PATENT-CLASS-250-432R
N76-18459*	c 37	.....		NASA-CASE-GSC-11551-1				US-PATENT-3,943,368				US-PATENT-3,953,734
				US-PATENT-APPL-SN-440917	N76-20994*	c 76	.....	NASA-CASE-NPO-13443-1	N76-22376*	c 27	.....	NASA-CASE-ARC-10721-1
				US-PATENT-CLASS-308-10				US-PATENT-APPL-SN-522551				US-PATENT-APPL-SN-427775
				US-PATENT-3,937,533				US-PATENT-CLASS-324-158D				US-PATENT-CLASS-264-60
N76-18641*	c 44	.....		NASA-CASE-NPO-13237-1				US-PATENT-CLASS-324-158R				US-PATENT-CLASS-264-63
				US-PATENT-APPL-SN-378127				US-PATENT-CLASS-324-158T				US-PATENT-CLASS-264-66
				US-PATENT-CLASS-136-83R				US-PATENT-CLASS-324-60C				US-PATENT-3,952,083
				US-PATENT-CLASS-136-86S				US-PATENT-3,943,442	N76-22377*	c 27	.....	NASA-CASE-MSC-14270-1
				US-PATENT-3,894,887				NASA-CASE-MSC-12593-1				US-PATENT-APPL-SN-482104
N76-18642*	c 44	.....		NASA-CASE-NPO-13464-1	N76-21250*	c 17	.....	US-PATENT-APPL-SN-419747				US-PATENT-CLASS-106-54
				US-PATENT-APPL-SN-428444				US-PATENT-CLASS-325-14				US-PATENT-CLASS-427-376
				US-PATENT-CLASS-123-3				US-PATENT-CLASS-343-100SA				US-PATENT-CLASS-427-379
				US-PATENT-CLASS-23-281				US-PATENT-CLASS-343-100ST				US-PATENT-CLASS-427-380
				US-PATENT-CLASS-423-650				US-PATENT-CLASS-343-112TC				US-PATENT-CLASS-427-402
				US-PATENT-CLASS-48-116				US-PATENT-3,949,400				US-PATENT-CLASS-428-332
				US-PATENT-CLASS-48-117	N76-21275*	c 20	.....	NASA-CASE-MFS-21311-1				US-PATENT-CLASS-428-428
				US-PATENT-CLASS-48-63				US-PATENT-APPL-SN-493359				US-PATENT-CLASS-428-450
				US-PATENT-CLASS-48-75				US-PATENT-CLASS-244-3.22				US-PATENT-CLASS-428-538
				US-PATENT-CLASS-48-95				US-PATENT-3,948,470				US-PATENT-CLASS-428-920
				US-PATENT-3,920,416	N76-21276*	c 20	.....	NASA-CASE-LEW-11876-1	N76-22509*	c 35	.....	US-PATENT-3,953,646
N76-18643*	c 44	.....		NASA-CASE-NPO-11961-1				US-PATENT-APPL-SN-542157				NASA-CASE-LAR-11434-1
				US-PATENT-APPL-SN-378126				US-PATENT-CLASS-29-25.18				US-PATENT-APPL-SN-464722
				US-PATENT-CLASS-136-30				US-PATENT-3,947,933				US-PATENT-CLASS-209-127R
				US-PATENT-CLASS-136-6LF				NASA-CASE-NPO-13568-1				US-PATENT-CLASS-317-246
				US-PATENT-CLASS-320-21	N76-21365*	c 32	.....	US-PATENT-APPL-SN-534265				US-PATENT-CLASS-324-61R
				US-PATENT-CLASS-320-22				US-PATENT-CLASS-343-761				US-PATENT-CLASS-324-71CP
				US-PATENT-3,912,999				US-PATENT-CLASS-343-781				US-PATENT-3,953,792
N76-18800*	c 60	.....		NASA-CASE-NPO-13067-1				US-PATENT-CLASS-343-786	N76-22540*	c 37	.....	NASA-CASE-MFS-22636-1
				US-PATENT-APPL-SN-274348				US-PATENT-3,949,404				US-PATENT-APPL-SN-536762
				US-PATENT-CLASS-340-172.5	N76-21366*	c 32	.....	NASA-CASE-MFS-22729-1				US-PATENT-CLASS-114-16.6
				US-PATENT-3,829,839				US-PATENT-APPL-SN-533608				US-PATENT-CLASS-244-137P
N76-18913*	c 74	.....		NASA-CASE-GSC-11877-1				US-PATENT-CLASS-235-156				US-PATENT-CLASS-244-158
				US-PATENT-APPL-SN-482953				US-PATENT-CLASS-325-42				US-PATENT-CLASS-244-161
				US-PATENT-CLASS-235-184				US-PATENT-CLASS-333-18				US-PATENT-3,952,976
				US-PATENT-CLASS-250-199				US-PATENT-3,949,206	N76-22541*	c 37	.....	NASA-CASE-LEW-11676-1
				US-PATENT-3,937,945	N76-21390*	c 33	.....	NASA-CASE-ARC-10711-2				US-PATENT-APPL-SN-551184
N76-19338*	c 33	.....		NASA-CASE-NPO-13519-1				US-PATENT-APPL-SN-493363				US-PATENT-CLASS-277-4
				US-PATENT-APPL-SN-536761				US-PATENT-APPL-SN-596788				US-PATENT-CLASS-277-41
				US-PATENT-CLASS-128-2S				US-PATENT-CLASS-317-246				US-PATENT-CLASS-277-74
				US-PATENT-CLASS-33-155R				US-PATENT-CLASS-73-398C				US-PATENT-CLASS-277-93R
				US-PATENT-CLASS-33-174D				US-PATENT-3,948,102				US-PATENT-3,953,038
				US-PATENT-CLASS-73-88.5SD	N76-21554*	c 37	.....	NASA-CASE-LAR-11465-1	N76-22657*	c 44	.....	NASA-CASE-MFS-22743-1
				US-PATENT-3,937,212				US-PATENT-APPL-SN-502137				US-PATENT-APPL-SN-518684
N76-19339*	c 33	.....		NASA-CASE-ARC-10810-1				US-PATENT-CLASS-156-286				US-PATENT-CLASS-126-271
				US-PATENT-APPL-SN-489009				US-PATENT-CLASS-156-382				US-PATENT-3,951,129
				US-PATENT-CLASS-204-195R				US-PATENT-CLASS-156-556	N76-22914*	c 54	.....	NASA-CASE-GSC-12082-1
				US-PATENT-CLASS-215-247				US-PATENT-CLASS-248-362				US-PATENT-APPL-SN-676958
				US-PATENT-CLASS-324-30B				US-PATENT-CLASS-248-363	N76-22993*	c 74	.....	NASA-CASE-ARC-10932-1
				US-PATENT-3,938,035				US-PATENT-CLASS-269-21				US-PATENT-APPL-SN-681001

N76-23273*	c 09	NASA-CASE-MFS-23099-1 US-PATENT-APPL-SN-607869 US-PATENT-CLASS-73-147 US-PATENT-3,952,590	N76-25049*	c 76	NASA-CASE-LEW-12094-1 US-PATENT-APPL-SN-508784 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-610 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-252-62.3 US-PATENT-CLASS-423-345 US-PATENT-CLASS-423-346 US-PATENT-3,956,032	N76-29347*	c 17	NASA-CASE-ARC-10849-1 US-PATENT-APPL-SN-563049 US-PATENT-CLASS-340-189M US-PATENT-CLASS-340-206 US-PATENT-CLASS-73-493 US-PATENT-CLASS-73-517R US-PATENT-3,972,038
N76-23426*	c 27	NASA-CASE-MSC-14270-2 US-PATENT-APPL-SN-482105 US-PATENT-CLASS-106-54 US-PATENT-CLASS-427-376 US-PATENT-CLASS-427-379 US-PATENT-CLASS-427-380 US-PATENT-CLASS-427-402 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-428 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-538 US-PATENT-CLASS-428-920 US-PATENT-3,955,034	N76-26175*	c 04	NASA-CASE-MFS-23551-1 US-PATENT-APPL-SN-114772 US-PATENT-CLASS-244-79 US-PATENT-CLASS-74-5.34 US-PATENT-3,739,646	N76-29379*	c 25	NASA-CASE-LEW-11390-3 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-380046 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-14 US-PATENT-CLASS-176-16 US-PATENT-CLASS-250-400 US-PATENT-CLASS-250-429 US-PATENT-CLASS-250-492R US-PATENT-3,971,697
N76-23570*	c 37	NASA-CASE-LEW-11169-1 US-PATENT-APPL-SN-446568 US-PATENT-CLASS-164-132 US-PATENT-3,957,104	N76-27232*	c 07	NASA-CASE-LAR-11476-1 US-PATENT-APPL-SN-592159 US-PATENT-CLASS-73-557 US-PATENT-3,964,319	N76-29551*	c 35	NASA-CASE-LAR-10907-1 US-PATENT-APPL-SN-559845 US-PATENT-CLASS-250-340 US-PATENT-CLASS-250-353 US-PATENT-3,971,940
N76-23675*	c 44	NASA-CASE-MFS-21628-2 US-PATENT-APPL-SN-421702 US-PATENT-APPL-SN-561020 US-PATENT-CLASS-126-270 US-PATENT-CLASS-165-133 US-PATENT-3,957,030	N76-27383*	c 25	NASA-CASE-LEW-11390-2 US-PATENT-APPL-SN-247434 US-PATENT-APPL-SN-340863 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-16 US-PATENT-CLASS-423-249 US-PATENT-3,966,547	N76-29552*	c 35	NASA-CASE-MSC-12617-1 US-PATENT-APPL-SN-513576 US-PATENT-CLASS-235-61NV US-PATENT-CLASS-235-78M US-PATENT-CLASS-235-88M US-PATENT-3,971,915
N76-23850*	c 60	NASA-CASE-MSC-14082-1 US-PATENT-APPL-SN-315070 US-PATENT-CLASS-340-347DD US-PATENT-CLASS-340-347P US-PATENT-3,958,238	N76-27472*	c 33	NASA-CASE-GSC-11924-1 US-PATENT-APPL-SN-582318 US-PATENT-CLASS-343-755 US-PATENT-CLASS-343-779 US-PATENT-CLASS-343-854 US-PATENT-3,965,475	N76-29575*	c 36	NASA-CASE-NPO-13346-1 US-PATENT-APPL-SN-533556 US-PATENT-CLASS-330-4.3 US-PATENT-CLASS-331-94.5C US-PATENT-3,972,008
N76-24280*	c 09	NASA-CASE-ARC-10808-1 US-PATENT-APPL-SN-505881 US-PATENT-CLASS-178-DIG.35 US-PATENT-CLASS-178-7.89 US-PATENT-CLASS-35-12N US-PATENT-3,956,833	N76-27473*	c 33	NASA-CASE-HQN-10876-1 US-PATENT-APPL-SN-555336 US-PATENT-CLASS-250-336 US-PATENT-CLASS-250-372 US-PATENT-3,965,354	N76-29588*	c 37	NASA-CASE-LEW-11949-1 US-PATENT-APPL-SN-590182 US-PATENT-CLASS-308-160 US-PATENT-CLASS-308-163 US-PATENT-CLASS-308-170 US-PATENT-3,971,602
N76-24363*	c 24	NASA-CASE-GSC-11786-1 US-PATENT-APPL-SN-401919 US-PATENT-CLASS-106-306 US-PATENT-CLASS-250-372 US-PATENT-CLASS-252-300 US-PATENT-CLASS-350-1 US-PATENT-3,957,675	N76-27515*	c 34	NASA-CASE-NPO-13391-1 US-PATENT-APPL-SN-446567 US-PATENT-CLASS-165-105 US-PATENT-CLASS-29-182 US-PATENT-CLASS-29-193 US-PATENT-CLASS-55-523 US-PATENT-CLASS-55-526 US-PATENT-CLASS-75-225 US-PATENT-3,964,902	N76-29590*	c 37	NASA-CASE-NPO-13613-1 US-PATENT-APPL-SN-574208 US-PATENT-CLASS-62-6 US-PATENT-3,971,230
N76-24405*	c 27	NASA-CASE-MSC-14331-1 US-PATENT-APPL-SN-374421 US-PATENT-CLASS-106-15FP US-PATENT-CLASS-260-DIG.24 US-PATENT-CLASS-260-33.8F US-PATENT-CLASS-260-45.7 US-PATENT-CLASS-260-92.1 US-PATENT-CLASS-526-1 US-PATENT-CLASS-526-255 US-PATENT-3,956,233	N76-27517*	c 34	NASA-CASE-ARC-10755-2 US-PATENT-APPL-SN-424013 US-PATENT-APPL-SN-545284 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194R US-PATENT-3,964,306	N76-29699*	c 44	NASA-CASE-HQN-10862-1 US-PATENT-APPL-SN-604374 US-PATENT-CLASS-136-143 US-PATENT-CLASS-136-30 US-PATENT-3,972,727
N76-24523*	c 35	NASA-CASE-LAR-11500-1 US-PATENT-APPL-SN-534266 US-PATENT-CLASS-73-1B US-PATENT-CLASS-73-15.6 US-PATENT-3,956,919	N76-27567*	c 37	NASA-CASE-LAR-11709-1 US-PATENT-APPL-SN-548468 US-PATENT-CLASS-339-17M US-PATENT-CLASS-339-18C US-PATENT-3,964,813	N76-29700*	c 44	NASA-CASE-NPO-13342-2 US-PATENT-APPL-SN-390049 US-PATENT-APPL-SN-548559 US-PATENT-CLASS-123-1A US-PATENT-CLASS-123-3 US-PATENT-CLASS-23-281 US-PATENT-CLASS-423-650 US-PATENT-CLASS-48-215 US-PATENT-CLASS-48-95 US-PATENT-3,955,941
N76-24524*	c 35	NASA-CASE-NPO-13462-1 US-PATENT-APPL-SN-545282 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-204 US-PATENT-3,956,932	N76-27568*	c 37	NASA-CASE-LAR-11726-1 US-PATENT-APPL-SN-538047 US-PATENT-CLASS-219-118 US-PATENT-CLASS-219-92 US-PATENT-3,967,091	N76-29701*	c 44	NASA-CASE-NPO-13567-1 US-PATENT-APPL-SN-566493 US-PATENT-CLASS-417-141 US-PATENT-CLASS-417-207 US-PATENT-CLASS-417-209 US-PATENT-CLASS-417-379 US-PATENT-CLASS-60-517 US-PATENT-CLASS-62-6 US-PATENT-3,972,651
N76-24525*	c 35	NASA-CASE-ARC-10816-1 US-PATENT-APPL-SN-552454 US-PATENT-CLASS-128-DIG.4 US-PATENT-CLASS-128-2.05V US-PATENT-CLASS-128-2.1E US-PATENT-CLASS-128-2.1Z US-PATENT-3,957,037	N76-27664*	c 44	NASA-CASE-MFS-23059-1 US-PATENT-APPL-SN-537024 US-PATENT-CLASS-136-86A US-PATENT-3,964,928	N76-29704*	c 44	NASA-CASE-NPO-13464-2 US-PATENT-APPL-SN-428444 US-PATENT-APPL-SN-553687 US-PATENT-CLASS-252-373 US-PATENT-CLASS-42-215 US-PATENT-CLASS-423-650 US-PATENT-CLASS-431-163 US-PATENT-CLASS-431-210 US-PATENT-CLASS-431-4 US-PATENT-CLASS-48-197R US-PATENT-3,971,847
N76-24553*	c 36	NASA-CASE-NPO-13531-1 US-PATENT-APPL-SN-531565 US-PATENT-CLASS-331-94.5C US-PATENT-CLASS-350-96WG US-PATENT-3,958,188	N76-28563*	c 38	NASA-CASE-NPO-12142-1 US-PATENT-APPL-SN-637249 US-PATENT-CLASS-73-88.5 US-PATENT-3,545,262	N76-29891*	c 51	NASA-CASE-GSC-11917-2 US-PATENT-APPL-SN-475337 US-PATENT-APPL-SN-555641 US-PATENT-CLASS-195-103.5R US-PATENT-3,971,703
N76-24575*	c 37	NASA-CASE-LAR-10073-1 US-PATENT-APPL-SN-436317 US-PATENT-CLASS-156-242 US-PATENT-CLASS-156-286 US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-267 US-PATENT-CLASS-428-117 US-PATENT-3,956,050	N76-28635*	c 44	NASA-CASE-GSC-12022-1 NASA-CASE-GSC-12023-1 US-PATENT-APPL-SN-576488 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-174 US-PATENT-CLASS-148-175 US-PATENT-CLASS-156-612 US-PATENT-CLASS-156-613 US-PATENT-CLASS-156-614 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-427-113 US-PATENT-CLASS-427-248 US-PATENT-CLASS-427-249 US-PATENT-CLASS-427-250 US-PATENT-CLASS-427-86 US-PATENT-3,961,997	N76-29894*	c 52	NASA-CASE-ARC-10583-1 US-PATENT-APPL-SN-301418 US-PATENT-CLASS-128-2.1A US-PATENT-CLASS-128-2H US-PATENT-CLASS-128-2P US-PATENT-3,971,362
N76-24696*	c 44	NASA-CASE-MFS-22744-1 US-PATENT-APPL-SN-518544 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-293 US-PATENT-CLASS-350-299 US-PATENT-3,958,553	N76-29217*	c 05	NASA-CASE-ARC-10470-3 US-PATENT-APPL-SN-206279 US-PATENT-APPL-SN-321180	N76-29895*	c 52	NASA-CASE-NPO-13644-1 US-PATENT-APPL-SN-574218 US-PATENT-CLASS-128-2.05R US-PATENT-CLASS-128-2S

		US-PATENT-CLASS-338-6				US-PATENT-CLASS-324-72			
		US-PATENT-3,971,363				US-PATENT-3,984,730			
N76-29896*	c 52	NASA-CASE-NPO-13643-1				NASA-CASE-MFS-22991-1	c 34		
		US-PATENT-APPL-SN-578241				US-PATENT-APPL-SN-521006			
		US-PATENT-CLASS-128-2.05E				US-PATENT-CLASS-165-164			
		US-PATENT-CLASS-128-2.06E				US-PATENT-CLASS-165-170			
		US-PATENT-CLASS-128-2S				US-PATENT-3,983,933			
		US-PATENT-CLASS-128-418				NASA-CASE-NPO-13479-1	c 35		
		US-PATENT-CLASS-128-419P				US-PATENT-APPL-SN-500981			
		US-PATENT-CLASS-73-398AR				US-PATENT-CLASS-250-290			
		US-PATENT-3,971,364				US-PATENT-CLASS-250-291			
N76-30053*	c 74	NASA-CASE-GSC-11782-1				US-PATENT-3,984,681			
		US-PATENT-APPL-SN-463925				NASA-CASE-MFS-23178-1	c 35		
		US-PATENT-CLASS-250-199				US-PATENT-APPL-SN-637247			
		US-PATENT-3,971,930				US-PATENT-CLASS-250-338			
N76-30131*	c 91	NASA-CASE-MSC-12423-1				US-PATENT-CLASS-250-339			
		US-PATENT-APPL-SN-448320				US-PATENT-CLASS-250-347			
		US-PATENT-CLASS-73-170R				US-PATENT-CLASS-356-106R			
		US-PATENT-CLASS-73-425.2				US-PATENT-3,984,686			
		US-PATENT-CLASS-73-432R				NASA-CASE-MSC-14472-1	c 43		
		US-PATENT-3,971,256				US-PATENT-APPL-SN-502138			
N76-30793*	c 52	US-PATENT-APPL-SN-452768				US-PATENT-CLASS-235-181			
		US-PATENT-CLASS-351-23				US-PATENT-CLASS-340-146.3P			
		US-PATENT-CLASS-351-30				US-PATENT-CLASS-340-146.3Q			
		US-PATENT-CLASS-351-36				US-PATENT-3,984,671			
		US-PATENT-RE-28,921				NASA-CASE-MFS-22458-1	c 44		
N76-31365*	c 31	NASA-CASE-ARC-10445-1				US-PATENT-APPL-SN-571458			
		US-PATENT-APPL-SN-491418				US-PATENT-CLASS-136-89			
		US-PATENT-CLASS-313-250				US-PATENT-CLASS-29-572			
		US-PATENT-CLASS-313-306				US-PATENT-3,984,256			
		US-PATENT-CLASS-313-309				NASA-CASE-NPO-13560-1	c 44		
		US-PATENT-CLASS-313-338				NASA-CASE-NPO-13561-1			
		US-PATENT-3,978,364				US-PATENT-APPL-SN-487156			
N76-31372*	c 32	NASA-CASE-NPO-13465-1				US-PATENT-CLASS-123-3			
		US-PATENT-APPL-SN-531575				US-PATENT-CLASS-23-281			
		US-PATENT-CLASS-179-1SA				US-PATENT-CLASS-252-373			
		US-PATENT-3,978,287				US-PATENT-CLASS-423-650			
N76-31409*	c 33	NASA-CASE-NPO-12134-1				US-PATENT-CLASS-431-11			
		US-PATENT-APPL-SN-536785				US-PATENT-CLASS-431-116			
		US-PATENT-CLASS-313-94				US-PATENT-CLASS-431-162			
		US-PATENT-CLASS-357-63				US-PATENT-CLASS-431-170			
		US-PATENT-3,978,360				US-PATENT-CLASS-431-41			
N76-31489*	c 35	NASA-CASE-GSC-11893-1				US-PATENT-CLASS-48-116			
		US-PATENT-APPL-SN-585420				US-PATENT-CLASS-48-117			
		US-PATENT-CLASS-73-9				US-PATENT-CLASS-48-197R			
		US-PATENT-3,977,231				US-PATENT-CLASS-48-212			
N76-31490*	c 35	NASA-CASE-NPO-13604-1				US-PATENT-CLASS-48-61			
		US-PATENT-APPL-SN-574219				US-PATENT-3,982,910			
		US-PATENT-CLASS-356-106S				NASA-CASE-MFS-23362-1	c 47		
		US-PATENT-CLASS-356-114				US-PATENT-APPL-SN-637268			
		US-PATENT-CLASS-356-209				US-PATENT-CLASS-250-338			
		US-PATENT-CLASS-356-244				US-PATENT-CLASS-250-339			
		US-PATENT-3,977,787				US-PATENT-CLASS-250-347			
N76-31512*	c 36	NASA-CASE-NPO-13490-1				US-PATENT-CLASS-356-106R			
		US-PATENT-APPL-SN-549418				US-PATENT-3,984,685			
		US-PATENT-CLASS-330-4				NASA-CASE-ARC-10855-1	c 52		
		US-PATENT-CLASS-331-94				US-PATENT-APPL-SN-617612			
		US-PATENT-3,978,417				US-PATENT-CLASS-128-2H			
N76-31524*	c 37	NASA-CASE-NPO-13535-1				US-PATENT-CLASS-73-343R			
		US-PATENT-APPL-SN-563050				US-PATENT-3,983,753			
		US-PATENT-CLASS-264-129				NASA-CASE-MSC-19442-1	c 74		
		US-PATENT-CLASS-264-161				US-PATENT-APPL-SN-558600			
		US-PATENT-CLASS-264-219				US-PATENT-CLASS-356-237			
		US-PATENT-CLASS-264-304				US-PATENT-CLASS-356-239			
		US-PATENT-CLASS-264-305				US-PATENT-3,985,454			
		US-PATENT-CLASS-264-308				NASA-CASE-LAR-11549-1	c 37		
		US-PATENT-CLASS-264-310				US-PATENT-APPL-SN-537979			
		US-PATENT-CLASS-264-318				US-PATENT-CLASS-219-118			
		US-PATENT-CLASS-264-334				US-PATENT-CLASS-219-92			
		US-PATENT-CLASS-427-230				US-PATENT-3,988,561			
		US-PATENT-3,978,187				NASA-CASE-MSC-12506-1	c 32		
N76-31562*	c 39	NASA-CASE-MSC-19372-1				US-PATENT-APPL-SN-545283			
		US-PATENT-APPL-SN-517995				US-PATENT-CLASS-340-3470D			
		US-PATENT-CLASS-182-178				US-PATENT-3,988,729			
		US-PATENT-CLASS-29-467				NASA-CASE-NPO-13543-1	c 32		
		US-PATENT-CLASS-29-526				NASA-CASE-NPO-13545-1			
		US-PATENT-CLASS-52-236				US-PATENT-APPL-SN-589173			
		US-PATENT-CLASS-52-637				US-PATENT-CLASS-325-41			
		US-PATENT-CLASS-52-648				US-PATENT-CLASS-340-146.1AL			
		US-PATENT-CLASS-52-651				US-PATENT-CLASS-340-146.1AQ			
		US-PATENT-CLASS-52-726				US-PATENT-CLASS-340-146.1AV			
		US-PATENT-CLASS-52-745				US-PATENT-3,988,677			
		US-PATENT-CLASS-52-749				NASA-CASE-MFS-23062-1	c 37		
		US-PATENT-3,977,147				US-PATENT-APPL-SN-591569			
N76-31666*	c 44	NASA-CASE-NPO-13087-2				US-PATENT-CLASS-60-527			
		US-PATENT-APPL-SN-296622				US-PATENT-3,987,630			
		US-PATENT-APPL-SN-462341				NASA-CASE-NPO-13428-1	c 60		
		US-PATENT-CLASS-136-206				NASA-CASE-NPO-13447-1			
		US-PATENT-CLASS-136-89				US-PATENT-APPL-SN-495022			
		US-PATENT-3,966,499				US-PATENT-CLASS-179-158A			
N76-31667*	c 44	NASA-CASE-MFS-23167-1				US-PATENT-CLASS-328-111			
		US-PATENT-APPL-SN-602618				US-PATENT-CLASS-340-172.5			
		US-PATENT-CLASS-165-10				US-PATENT-3,988,716			
		US-PATENT-CLASS-60-659				NASA-CASE-NPO-13666-1	c 27		
		US-PATENT-3,977,197				US-PATENT-APPL-SN-633877			
N76-31714*	c 45	NASA-CASE-LAR-11405-1				US-PATENT-CLASS-29-182.5			
		US-PATENT-APPL-SN-537480							
		US-PATENT-CLASS-23-230R							
		US-PATENT-CLASS-23-232E							
		US-PATENT-CLASS-23-232R							
		US-PATENT-3,977,831							
N76-31946*	c 62	NASA-CASE-GSC-12115-1							
		US-PATENT-APPL-SN-262596							
		US-PATENT-CLASS-340-347SY							
		US-PATENT-3,976,997							
N76-31998*	c 74	NASA-CASE-MSC-12640-1							
		US-PATENT-APPL-SN-591568							
		US-PATENT-CLASS-350-162SF							
		US-PATENT-3,977,771							
N76-32140*	c 03	NASA-CASE-MFS-16609-3							
		US-PATENT-APPL-SN-307714							
		US-PATENT-APPL-SN-511894							
		US-PATENT-APPL-SN-82279							
		US-PATENT-CLASS-325-114							
		US-PATENT-CLASS-325-115							
		US-PATENT-CLASS-325-186							
		US-PATENT-CLASS-343-705							
		US-PATENT-3,978,410							
N76-32315*	c 27	NASA-CASE-ARC-10592-2							
		US-PATENT-APPL-SN-414043							
		US-PATENT-CLASS-260-240G							
		US-PATENT-CLASS-260-566B							
		US-PATENT-3,965,096							
N76-32457*	c 33	NASA-CASE-NPO-13553-1							
		US-PATENT-APPL-SN-616333							
		US-PATENT-CLASS-343-882							
		US-PATENT-CLASS-343-915							
		US-PATENT-3,978,490							
N76-33835* #	c 52	NASA-CASE-ARC-10994-1							
		US-PATENT-APPL-SN-728369							
N77-10001*	c 02	NASA-CASE-LAR-11645-1							
		US-PATENT-APPL-SN-473973							
		US-PATENT-CLASS-244-113							
		US-PATENT-CLASS-244-130							
		US-PATENT-3,984,070							
N77-10071*	c 09	NASA-CASE-NPO-13528-1							
		US-PATENT-APPL-SN-521620							
		US-PATENT-CLASS-73-147							
		US-PATENT-3,983,749							
N77-10112*	c 15	NASA-CASE-MFS-20855-1							
		US-PATENT-APPL-SN-243374							
		US-PATENT-CLASS-244-1SD							
		US-PATENT-3,744,739							
N77-10113*	c 15	NASA-CASE-MFS-22787-1							
		US-PATENT-APPL-SN-511346							
		US-PATENT-CLASS-244-169							
		US-PATENT-CLASS-244-171							
		US-PATENT-CLASS-244-3.21							
		US-PATENT-3,984,072							
N77-10148*	c 20	NASA-CASE-LEW-12082-1							
		US-PATENT-APPL-SN-612964							
		US-PATENT-CLASS-313-231.4							
		US-PATENT-CLASS-313-240							
		US-PATENT-CLASS-313-361							
		US-PATENT-CLASS-315-111.3							
		US-PATENT-CLASS-60-202							
		US-PATENT-3,983,695							
N77-10213*	c 28	NASA-CASE-LAR-11995-1							
		US-PATENT-APPL-SN-238826							
		US-PATENT-CLASS-102-99							
		US-PATENT-CLASS-264-3R							
		US-PATENT-CLASS-86-1R							
		US-PATENT-3,983,780							
N77-10229*	c 31	NASA-CASE-NPO-13459-1							
		US-PATENT-APPL-SN-598967							
		US-PATENT-CLASS-62-217							
		US-PATENT-CLASS-62-514JT							
		US-PATENT-3,983,714							
N77-10392*	c 32	NASA-CASE-LAR-11827-1							
		US-PATENT-APPL-SN-412379							

N77-13315*	c 33	US-PATENT-3,990,860	N77-14581*	c 44	US-PATENT-3,996,067	N77-18154*	c 07	US-PATENT-APPL-SN-565289
		NASA-CASE-NPO-11515-1			NASA-CASE-LEW-12220-1			US-PATENT-CLASS-235-92CA
		US-PATENT-APPL-SN-139596			US-PATENT-APPL-SN-606891			US-PATENT-CLASS-235-92CT
N77-13418*	c 37	US-PATENT-CLASS-307-233	N77-14735*	c 52	US-PATENT-CLASS-320-2	N77-18307*	c 32	US-PATENT-CLASS-235-92DN
		US-PATENT-CLASS-307-295			US-PATENT-CLASS-429-23			US-PATENT-CLASS-235-92R
		US-PATENT-CLASS-328-133			US-PATENT-CLASS-429-34			US-PATENT-4,001,552
N77-14025*	c 07	US-PATENT-3,750,035	N77-14736*	c 52	US-PATENT-3,996,064	N77-18382*	c 34	US-PATENT-APPL-SN-612899
		NASA-CASE-ARC-10905-1			US-PATENT-APPL-SN-612965			US-PATENT-CLASS-137-15.1
		US-PATENT-APPL-SN-618594			US-PATENT-CLASS-3-1.2			US-PATENT-CLASS-244-53B
N77-14292*	c 32	US-PATENT-CLASS-219-300	N77-14737*	c 52	US-PATENT-CLASS-3-14	N77-18417*	c 35	US-PATENT-4,007,891
		US-PATENT-CLASS-219-304			US-PATENT-CLASS-3,995,324			NASA-CASE-MFS-23303-1
		US-PATENT-CLASS-239-171			NASA-CASE-ARC-11007-1			US-PATENT-APPL-SN-676957
N77-14333*	c 33	US-PATENT-CLASS-252-359A	N77-14738*	c 52	US-PATENT-APPL-SN-652948	N77-18891*	c 73	US-PATENT-CLASS-333-70R
		US-PATENT-3,990,987			US-PATENT-CLASS-128-2H			US-PATENT-CLASS-333-75
		NASA-CASE-LEW-12419-1			US-PATENT-CLASS-128-379			US-PATENT-CLASS-333-76
N77-14334*	c 33	US-PATENT-CLASS-416-153	N77-14739*	c 52	US-PATENT-CLASS-128-400	N77-18893*	c 74	US-PATENT-CLASS-333-82B
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-128-402			US-PATENT-4,007,434
		US-PATENT-CLASS-416-162			US-PATENT-3,995,621			NASA-CASE-LAR-10805-2
N77-14335*	c 33	US-PATENT-CLASS-416-165	N77-17029*	c 05	NASA-CASE-MSC-14276-1	N77-19056*	c 04	US-PATENT-APPL-SN-428992
		US-PATENT-CLASS-416-167			US-PATENT-APPL-SN-557430			US-PATENT-APPL-SN-578240
		US-PATENT-CLASS-60-226R			US-PATENT-CLASS-250-363R			US-PATENT-CLASS-244-117A
N77-14406*	c 35	US-PATENT-3,994,128	N77-17059*	c 07	US-PATENT-CLASS-250-444	N77-19076*	c 09	US-PATENT-CLASS-427-160
		NASA-CASE-LAR-11607-1			US-PATENT-CLASS-250-498			US-PATENT-CLASS-427-322
		US-PATENT-APPL-SN-617895			US-PATENT-3,996,471			US-PATENT-CLASS-428-35
N77-14407*	c 35	US-PATENT-CLASS-325-145	N77-17143*	c 20	NASA-CASE-KSC-10849-1	N77-19170*	c 24	US-PATENT-CLASS-428-421
		US-PATENT-CLASS-332-22			US-PATENT-APPL-SN-613734			US-PATENT-CLASS-428-461
		US-PATENT-CLASS-332-23R			US-PATENT-CLASS-128-418			US-PATENT-4,008,348
N77-14408*	c 35	US-PATENT-3,996,532	N77-17161*	c 23	US-PATENT-CLASS-3-1.1	N77-19171*	c 24	NASA-CASE-ARC-10898-1
		NASA-CASE-GSC-11789-1			US-PATENT-CLASS-339-252R			US-PATENT-APPL-SN-625732
		US-PATENT-APPL-SN-538982			US-PATENT-3,995,644			US-PATENT-CLASS-73-12
N77-14409*	c 35	US-PATENT-CLASS-317-31	N77-17351*	c 33	NASA-CASE-GSC-11839-1	N77-19353*	c 34	US-PATENT-CLASS-73-432SD
		US-PATENT-CLASS-321-13			US-PATENT-APPL-SN-468614			US-PATENT-CLASS-73-71.6
		US-PATENT-3,996,506			US-PATENT-CLASS-235-152			US-PATENT-4,007,623
N77-14477*	c 37	US-PATENT-CLASS-12018-1	N77-17354*	c 33	US-PATENT-CLASS-250-227	N77-19385*	c 35	NASA-CASE-NPO-13121-1
		US-PATENT-APPL-SN-635531			US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-294727
		US-PATENT-CLASS-329-122			US-PATENT-CLASS-350-96R			US-PATENT-CLASS-310-4R
N77-14478*	c 37	US-PATENT-CLASS-329-124	N77-17426*	c 35	US-PATENT-3,996,455	N77-19457*	c 37	US-PATENT-CLASS-313-311
		US-PATENT-CLASS-331-23			NASA-CASE-ARC-10807-1			US-PATENT-CLASS-346R
		US-PATENT-CLASS-331-36C			US-PATENT-APPL-SN-513612			US-PATENT-4,008,407
N77-14479*	c 37	US-PATENT-CLASS-332-30V	N77-17464*	c 37	US-PATENT-CLASS-416-104	N77-19458*	c 37	NASA-CASE-MSC-14683-1
		US-PATENT-3,997,848			US-PATENT-CLASS-416-138			US-PATENT-APPL-SN-612967
		NASA-CASE-MFS-22560-1			US-PATENT-CLASS-416-141			US-PATENT-CLASS-358-44
N77-14580*	c 44	US-PATENT-APPL-SN-589233	N77-17495*	c 38	US-PATENT-CLASS-416-138			US-PATENT-4,004,292
		US-PATENT-CLASS-250-214A			US-PATENT-3,999,886			NASA-CASE-LAR-11387-2
		US-PATENT-CLASS-330-14			NASA-CASE-LEW-12760-1			US-PATENT-APPL-SN-531647
N77-14581*	c 44	US-PATENT-CLASS-330-28	N77-17495*	c 38	US-PATENT-CLASS-60-226A			US-PATENT-APPL-SN-623156
		US-PATENT-CLASS-330-59			US-PATENT-CLASS-60-228			US-PATENT-CLASS-33-356
		US-PATENT-3,996,462			US-PATENT-4,005,574			US-PATENT-CLASS-73-178R
N77-14582*	c 44	NASA-CASE-NPO-13663-1	N77-17495*	c 38	NASA-CASE-XLA-01349			US-PATENT-4,006,631
		US-PATENT-APPL-SN-634205			US-PATENT-APPL-SN-256493			NASA-CASE-ARC-10979-1
		US-PATENT-CLASS-250-289			US-PATENT-APPL-SN-54552			US-PATENT-APPL-SN-608483
N77-14583*	c 44	US-PATENT-CLASS-250-298	N77-17495*	c 38	US-PATENT-CLASS-102-49.3			US-PATENT-CLASS-124-6
		US-PATENT-3,996,464			US-PATENT-CLASS-264-3R			US-PATENT-CLASS-244-63
		NASA-CASE-LAR-11648-1			US-PATENT-CLASS-86-1R			US-PATENT-3,989,206
N77-14584*	c 44	US-PATENT-APPL-SN-645571	N77-17495*	c 38	US-PATENT-CLASS-86-20R			NASA-CASE-LEW-12550-1
		US-PATENT-CLASS-73-133R			US-PATENT-4,000,682			US-PATENT-APPL-SN-596905
		US-PATENT-3,995,476			NASA-CASE-MSC-14428-1			US-PATENT-CLASS-416-224
N77-14585*	c 44	NASA-CASE-ARC-10448-3	N77-17495*	c 38	US-PATENT-APPL-SN-450504			US-PATENT-CLASS-416-230
		US-PATENT-APPL-SN-221670			US-PATENT-CLASS-23-230B			US-PATENT-4,006,999
		US-PATENT-APPL-SN-318848			US-PATENT-CLASS-23-230M			NASA-CASE-LEW-12619-1
N77-14586*	c 44	US-PATENT-CLASS-250-396	N77-17495*	c 38	US-PATENT-CLASS-23-230R			US-PATENT-APPL-SN-462424
		US-PATENT-3,996,468			US-PATENT-CLASS-23-231			US-PATENT-CLASS-204-16
		NASA-CASE-NPO-13540-1			US-PATENT-CLASS-23-232C			US-PATENT-CLASS-204-40
N77-14587*	c 44	US-PATENT-APPL-SN-526450	N77-17495*	c 38	US-PATENT-CLASS-23-232R			US-PATENT-CLASS-204-9
		US-PATENT-CLASS-136-232			US-PATENT-CLASS-23-254R			US-PATENT-CLASS-209-527.2
		US-PATENT-CLASS-136-233			US-PATENT-CLASS-55-197			US-PATENT-3,989,602
N77-14588*	c 44	US-PATENT-3,996,070	N77-17495*	c 38	US-PATENT-CLASS-55-67			NASA-CASE-ARC-10912-1
		NASA-CASE-NPO-13683-1			US-PATENT-CLASS-55-74			US-PATENT-APPL-SN-623187
		US-PATENT-APPL-SN-599284			US-PATENT-CLASS-73-23.1			US-PATENT-CLASS-62-100
N77-14589*	c 44	US-PATENT-CLASS-250-343	N77-17495*	c 38	US-PATENT-CLASS-73-61.1C			US-PATENT-CLASS-62-121
		US-PATENT-CLASS-356-201			US-PATENT-4,003,257			US-PATENT-CLASS-62-269
		US-PATENT-CLASS-356-204			NASA-CASE-MFS-23181-1			US-PATENT-CLASS-62-315
N77-14590*	c 44	US-PATENT-CLASS-356-97	N77-17495*	c 38	US-PATENT-APPL-SN-566495			US-PATENT-4,007,601
		US-PATENT-3,995,960			US-PATENT-CLASS-331-114			NASA-CASE-MSC-14653-1
		NASA-CASE-FRC-10081-1			US-PATENT-CLASS-331-177V			US-PATENT-APPL-SN-521816
N77-14591*	c 44	US-PATENT-APPL-SN-598504	N77-17495*	c 38	US-PATENT-CLASS-332-18			US-PATENT-CLASS-177-208
		US-PATENT-CLASS-280-432			US-PATENT-CLASS-332-30V			US-PATENT-CLASS-73-432R
		US-PATENT-3,995,877			US-PATENT-4,003,004			US-PATENT-3,988,933
N77-14592*	c 44	NASA-CASE-LAR-11658-1	N77-17495*	c 38	NASA-CASE-LEW-11881-1			NASA-CASE-XNP-04167-3
		US-PATENT-APPL-SN-625759			US-PATENT-APPL-SN-598968			US-PATENT-APPL-SN-170544
		US-PATENT-CLASS-83-451			US-PATENT-CLASS-307-229			US-PATENT-APPL-SN-479357
N77-14593*	c 44	US-PATENT-CLASS-83-467R	N77-17495*	c 38	US-PATENT-CLASS-307-230			US-PATENT-CLASS-331-94.5D
		US-PATENT-3,995,522			US-PATENT-CLASS-328-161			US-PATENT-CLASS-331-94.5G
		NASA-CASE-GSC-11960-1			US-PATENT-4,001,602			US-PATENT-CLASS-331-94.5PE
N77-14594*	c 44	US-PATENT-APPL-SN-629456	N77-17495*	c 38	NASA-CASE-MFS-22671-2			US-PATENT-4,007,430
		US-PATENT-CLASS-242-187			US-PATENT-APPL-SN-419831			NASA-CASE-MFS-15218-1
		US-PATENT-CLASS-242-193			US-PATENT-APPL-SN-561956			US-PATENT-APPL-SN-387094
N77-14595*	c 44	US-PATENT-CLASS-242-204	N77-17495*	c 38	US-PATENT-CLASS-360-25			US-PATENT-CLASS-197-188
		US-PATENT-CLASS-242-210			US-PATENT-CLASS-360-31			US-PATENT-CLASS-197-190
		US-PATENT-CLASS-242-57			US-PATENT-4,003,084			US-PATENT-3,989,136
N77-14596*	c 44	US-PATENT-3,995,789	N77-17495*	c 38	NASA-CASE-GSC-11978-1			NASA-CASE-GSC-11883-1
		NASA-CASE-LEW-11496-1			US-PATENT-APPL-SN-593142			NASA

		US-PATENT-APPL-SN-596787		US-PATENT-APPL-SN-841278		US-PATENT-CLASS-60-39.28R
		US-PATENT-CLASS-310-4A		US-PATENT-CLASS-313-175		US-PATENT-CLASS-60-39.66
		US-PATENT-CLASS-337-334		US-PATENT-CLASS-313-180		US-PATENT-4,020,632
		US-PATENT-CLASS-340-224		US-PATENT-CLASS-313-184	N77-23482*	c 37
		US-PATENT-CLASS-60-527		US-PATENT-CLASS-315-108		NASA-CASE-LAR-11563-1
		US-PATENT-CLASS-75-122.7		US-PATENT-CLASS-315-110		US-PATENT-APPL-SN-672815
		US-PATENT-CLASS-75-170		US-PATENT-CLASS-3621.330		US-PATENT-CLASS-29-DIG.35
		US-PATENT-4,010,455	N77-21392*	c 35	NASA-CASE-NPO-10711-1	US-PATENT-CLASS-403-273
N77-19571*	c 44	NASA-CASE-LEW-11549-1		US-PATENT-APPL-SN-844315		US-PATENT-CLASS-53-9
		US-PATENT-APPL-SN-510677		US-PATENT-CLASS-179-100.2C		US-PATENT-4,017,959
		US-PATENT-CLASS-136-89	N77-21393*	c 35	US-PATENT-3,697,705	N77-23483*
		US-PATENT-3,989,541		NASA-CASE-NPO-10619-1	c 37	NASA-CASE-MFS-23088-1
N77-19760*	c 60	NASA-CASE-ARC-10899-1		US-PATENT-APPL-SN-757017		US-PATENT-APPL-SN-602617
		US-PATENT-APPL-SN-576774		US-PATENT-CLASS-338-25		US-PATENT-CLASS-213-81
		US-PATENT-CLASS-178-69.5R		US-PATENT-3,555,483		US-PATENT-CLASS-214-1CM
		US-PATENT-CLASS-179-15B5	N77-21844*	c 54	NASA-CASE-MFS-23074-1	US-PATENT-CLASS-244-161
		US-PATENT-CLASS-340-172.5		US-PATENT-APPL-SN-623188	N77-24328*	c 32
		US-PATENT-3,990,049		US-PATENT-CLASS-188-291		NASA-CASE-ARC-10984-1
N77-20162*	c 20	NASA-CASE-LEW-12048-1		US-PATENT-CLASS-254-158		US-PATENT-APPL-SN-690815
		US-PATENT-APPL-SN-665033		US-PATENT-4,018,423		US-PATENT-CLASS-358-133
		US-PATENT-CLASS-313-230	N77-21941*	c 74	NASA-CASE-NPO-11429-1	US-PATENT-CLASS-358-138
		US-PATENT-CLASS-313-231.3		US-PATENT-APPL-SN-95189	N77-24331*	c 32
		US-PATENT-CLASS-313-360		US-PATENT-CLASS-240-41.35R		NASA-CASE-MSC-14840-1
		US-PATENT-CLASS-315-111.3		US-PATENT-CLASS-240-41R		US-PATENT-APPL-SN-692414
		US-PATENT-CLASS-315-111.6		US-PATENT-CLASS-240-46.13		US-PATENT-CLASS-178-88
		US-PATENT-CLASS-60-202		US-PATENT-CLASS-356-236		US-PATENT-CLASS-325-346
		US-PATENT-4,011,719		US-PATENT-3,711,701		US-PATENT-CLASS-329-104
N77-20201*	c 26	NASA-CASE-LEW-12245-1	N77-22386*	c 33	NASA-CASE-NPO-10870-1	US-PATENT-CLASS-329-122
		US-PATENT-APPL-SN-584094		NASA-CASE-NPO-11191-1	N77-24375*	c 33
		US-PATENT-CLASS-148-12.7N		NASA-CASE-NPO-11403-1		NASA-CASE-MSC-12709-1
		US-PATENT-CLASS-148-162		US-PATENT-APPL-SN-108810		US-PATENT-APPL-SN-630583
		US-PATENT-CLASS-148-2		US-PATENT-CLASS-313-146		US-PATENT-CLASS-307-225R
		US-PATENT-CLASS-148-20.3		US-PATENT-CLASS-313-182		US-PATENT-CLASS-328-38
		US-PATENT-CLASS-148-32.5		US-PATENT-CLASS-313-60		US-PATENT-CLASS-328-39
		US-PATENT-CLASS-75-170		US-PATENT-3,736,453		US-PATENT-CLASS-328-4-8
N77-20289*	c 32	US-PATENT-4,012,237	N77-22449*	c 35	NASA-CASE-LAR-11825-1	US-PATENT-CLASS-328-63
		NASA-CASE-NPO-13753-1		US-PATENT-APPL-SN-632112	N77-24423*	c 34
		US-PATENT-APPL-SN-658449		US-PATENT-CLASS-73-88R		NASA-CASE-LAR-12045-1
		US-PATENT-CLASS-325-4		US-PATENT-4,018,085		US-PATENT-APPL-SN-682416
		US-PATENT-CLASS-343-100ST	N77-22450*	c 35	NASA-CASE-MFS-23281-1	US-PATENT-CLASS-259/4R
		US-PATENT-CLASS-343-6.8R		US-PATENT-APPL-SN-657995		US-PATENT-CLASS-261-DIG.75
		US-PATENT-CLASS-343-6.5R		US-PATENT-CLASS-73-15.6		US-PATENT-CLASS-261-123
		US-PATENT-4,012,696		US-PATENT-CLASS-73-95	N77-24454*	c 35
N77-20399*	c 35	NASA-CASE-ARC-10716-1		US-PATENT-4,018,080		NASA-CASE-ARC-10900-1
		US-PATENT-APPL-SN-403695	N77-22479*	c 37	NASA-CASE-NPO-10316-1	US-PATENT-APPL-SN-630579
		US-PATENT-CLASS-235-150.2		US-PATENT-APPL-SN-703107		US-PATENT-CLASS-338-229
		US-PATENT-CLASS-235-150.25		US-PATENT-CLASS-60-53		US-PATENT-CLASS-338-28
		US-PATENT-CLASS-244-165		US-PATENT-3,478,514	N77-24455*	c 35
		US-PATENT-CLASS-244-171	N77-22480*	c 37	NASA-CASE-NPO-13058-1	US-PATENT-CLASS-GSC-12077-1
		US-PATENT-CLASS-244-3.21		NASA-CASE-NPO-13096-1		US-PATENT-APPL-SN-635519
		US-PATENT-4,012,018		US-PATENT-APPL-SN-403154		US-PATENT-CLASS-65-108
N77-20400*	c 35	NASA-CASE-ARC-10911-1		US-PATENT-CLASS-214-16.1CB		US-PATENT-CLASS-65-59A
		US-PATENT-APPL-SN-610802		US-PATENT-3,896,955		US-PATENT-CLASS-65-54
		US-PATENT-CLASS-338-28	N77-22482*	c 37	NASA-CASE-MSC-19536-1	US-PATENT-CLASS-65-64
		US-PATENT-CLASS-73-204		US-PATENT-APPL-SN-658450		US-PATENT-4,025,327
		US-PATENT-4,011,756		US-PATENT-CLASS-74-96	N77-25499*	c 36
N77-20401*	c 35	NASA-CASE-MFS-23267-1		US-PATENT-4,018,092		NASA-CASE-GSC-11571-1
		US-PATENT-APPL-SN-653422	N77-22606*	c 44	NASA-CASE-LEW-12364-1	US-PATENT-APPL-SN-646704
		US-PATENT-CLASS-126-270		US-PATENT-APPL-SN-707124		US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-126-271		US-PATENT-CLASS-253-317	N77-25501*	c 36
		US-PATENT-CLASS-250-203R		US-PATENT-CLASS-429-105		NASA-CASE-ARC-10970-1
		US-PATENT-4,011,854		US-PATENT-CLASS-429-107		US-PATENT-APPL-SN-691046
N77-20882*	c 74	NASA-CASE-LAR-11782-1		US-PATENT-CLASS-429-190		US-PATENT-CLASS-250-574
		US-PATENT-APPL-SN-608482		US-PATENT-4,018,971		US-PATENT-CLASS-350-100
		US-PATENT-CLASS-350-145	N77-22607*	c 44	NASA-CASE-LAR-11361-1	US-PATENT-CLASS-350-102
		US-PATENT-CLASS-350-174		US-PATENT-APPL-SN-669928		US-PATENT-CLASS-356-28
		US-PATENT-4,012,123		US-PATENT-CLASS-23-277R	N77-25502*	c 36
N77-21267*	c 32	NASA-CASE-LAR-11390-1		US-PATENT-CLASS-23-281		NASA-CASE-NPO-13147-1
		US-PATENT-APPL-SN-662176		US-PATENT-CLASS-423-648R		US-PATENT-APPL-SN-317310
		US-PATENT-CLASS-340-5H		US-PATENT-CLASS-55-158		US-PATENT-CLASS-330-4.3
		US-PATENT-CLASS-343-18B		US-PATENT-4,019,868		US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-343-5CM	N77-22794*	c 51	NASA-CASE-GSC-12039-1	US-PATENT-CLASS-331-94.5P
		US-PATENT-CLASS-343-5MM		US-PATENT-APPL-SN-572991	N77-25769*	c 51
		US-PATENT-4,019,179		US-PATENT-CLASS-195-103.5K		NASA-CASE-LAR-10773-3
N77-21314*	c 33	NASA-CASE-NPO-10189-1		US-PATENT-CLASS-195-103.5R		US-PATENT-APPL-SN-125235
		NASA-CASE-NPO-10781-1		US-PATENT-4,014,745		US-PATENT-APPL-SN-314656
		US-PATENT-APPL-SN-744522	N77-22950*	c 74	NASA-CASE-ARC-10976-1	US-PATENT-APPL-SN-623238
		US-PATENT-CLASS-307-232		US-PATENT-APPL-SN-665032		US-PATENT-CLASS-195-1.8
		US-PATENT-CLASS-307-238		US-PATENT-CLASS-356-171	N77-25772*	c 52
		US-PATENT-CLASS-307-280		US-PATENT-4,018,533		US-PATENT-4,018,649
		US-PATENT-CLASS-329-119	N77-22951*	c 74	NASA-CASE-NPO-13722-1	NASA-CASE-KSC-11030-1
		US-PATENT-CLASS-329-205		US-PATENT-APPL-SN-616472		US-PATENT-APPL-SN-709849
		US-PATENT-CLASS-332-16		US-PATENT-CLASS-250-203R		US-PATENT-CLASS-128-1R
		US-PATENT-CLASS-332-30		US-PATENT-CLASS-250-211K		US-PATENT-CLASS-3-1
		US-PATENT-CLASS-332-52		US-PATENT-CLASS-356-141		US-PATENT-CLASS-339,12R
		US-PATENT-3,582,828		US-PATENT-CLASS-356-152	N77-26385*	c 33
N77-21315*	c 33	NASA-CASE-NPO-11510-1		US-PATENT-CLASS-356-172		NASA-CASE-LEW-11978-1
		US-PATENT-APPL-SN-173178		US-PATENT-4,018,532		US-PATENT-APPL-SN-708658
		US-PATENT-APPL-SN-385059	N77-23106*	c 07	NASA-CASE-LEW-12830-1	US-PATENT-CLASS-204-32A
		US-PATENT-CLASS-313-161		US-PATENT-APPL-SN-596641		US-PATENT-CLASS-29-597
		US-PATENT-CLASS-313-184		US-PATENT-APPL-SN-655149		US-PATENT-CLASS-29-622
		US-PATENT-CLASS-313-224		US-PATENT-CLASS-123-122E	N77-26386*	c 33
		US-PATENT-CLASS-313-32		US-PATENT-CLASS-123-41.33		NASA-CASE-GSC-11824-1
		US-PATENT-CLASS-315-344		US-PATENT-CLASS-137-101		US-PATENT-APPL-SN-583486
		US-PATENT-3,881,132		US-PATENT-CLASS-415-180		US-PATENT-CLASS-318-138
N77-21316*	c 33	NASA-CASE-NPO-10790-1		US-PATENT-CLASS-60-39.03		US-PATENT-CLASS-318-227
						US-PATENT-CLASS-318-254

N77-26387*	c 33	US-PATENT-4,027,212	N77-28225*	c 24	US-PATENT-4,033,119	N77-30309*	c 32	NASA-CASE-GSC-11898-1
		NASA-CASE-LAR-11389-1			NASA-CASE-MS-C-12631-1			US-PATENT-APPL-SN-566494
		US-PATENT-APPL-SN-229143			US-PATENT-APPL-SN-568541			US-PATENT-CLASS-179-15A
		US-PATENT-CLASS-310-111			US-PATENT-CLASS-156-229			US-PATENT-CLASS-179-15P
N77-26477*	c 36	US-PATENT-CLASS-310-168	N77-28265*	c 26	US-PATENT-CLASS-244-123	N77-30365*	c 33	US-PATENT-4,039,754
		US-PATENT-CLASS-322-96			US-PATENT-CLASS-428-141			NASA-CASE-NPO-13812-1
		US-PATENT-3,849,720			US-PATENT-CLASS-428-161			US-PATENT-APPL-SN-694855
		NASA-CASE-NPO-13550-1			US-PATENT-CLASS-428-245			US-PATENT-CLASS-307-64
N77-26919*	c 71	US-PATENT-APPL-SN-483301	N77-28346*	c 32	US-PATENT-CLASS-428-457	N77-30399*	c 34	US-PATENT-CLASS-363-53
		US-PATENT-CLASS-250-281			US-PATENT-CLASS-428-458			US-PATENT-CLASS-363-70
		US-PATENT-CLASS-250-282			US-PATENT-4,032,089			US-PATENT-4,039,925
		US-PATENT-CLASS-250-283			NASA-CASE-LEW-11573-1			NASA-CASE-MFS-19287-1
N77-26942*	c 74	US-PATENT-CLASS-250-423P	N77-28385*	c 33	US-PATENT-APPL-SN-625733	N77-30436*	c 35	US-PATENT-APPL-SN-641802
		US-PATENT-4,031,389			US-PATENT-CLASS-228-190			US-PATENT-CLASS-137-207
		NASA-CASE-NPO-13673-1			US-PATENT-CLASS-228-194			US-PATENT-CLASS-137-209
		US-PATENT-APPL-SN-613004			US-PATENT-CLASS-228-232			US-PATENT-CLASS-60-259
N77-27116*	c 07	US-PATENT-CLASS-330-5.5	N77-28486*	c 37	US-PATENT-4,033,504	N77-30749*	c 54	US-PATENT-CLASS-62-55
		US-PATENT-CLASS-331-107A			NASA-CASE-GSC-12053-1			US-PATENT-4,039,000
		US-PATENT-CLASS-333-72			US-PATENT-APPL-SN-667930			NASA-CASE-MFS-23175-1
		US-PATENT-4,025,876			US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-667928
N77-27131*	c 09	US-PATENT-CLASS-333-72	N77-28487*	c 37	US-PATENT-CLASS-250-238	N77-31308*	c 27	US-PATENT-CLASS-324-163
		NASA-CASE-GSC-12058-1			US-PATENT-4,033,882			US-PATENT-CLASS-324-165
		US-PATENT-APPL-SN-680938			NASA-CASE-LEW-12444-1			US-PATENT-CLASS-324-174
		US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-583485			US-PATENT-CLASS-340-271
N77-27187*	c 24	US-PATENT-4,025,783	N77-28511*	c 39	US-PATENT-CLASS-123-148CB	N77-31350*	c 32	US-PATENT-CLASS-340-347P
		NASA-CASE-LEW-12608-1			US-PATENT-CLASS-123-148E			US-PATENT-CLASS-340-347SY
		US-PATENT-APPL-SN-680067			US-PATENT-CLASS-315-176			US-PATENT-4,039,946
		US-PATENT-CLASS-416-220R			US-PATENT-4,033,316			NASA-CASE-KSC-11004-1
N77-27188*	c 24	US-PATENT-CLASS-416-221	N77-28716*	c 52	NASA-CASE-LEW-11158-1	N77-31404*	c 33	US-PATENT-APPL-SN-710032
		US-PATENT-4,033,705			US-PATENT-APPL-SN-663008			US-PATENT-CLASS-3-2
		NASA-CASE-LAR-11883-1			US-PATENT-CLASS-308-5R			US-PATENT-CLASS-3-21
		US-PATENT-APPL-SN-662175			US-PATENT-CLASS-308-73			US-PATENT-4,038,705
N77-27345*	c 34	US-PATENT-CLASS-73-15R	N77-28717*	c 52	US-PATENT-CLASS-308-9	N77-31465*	c 35	NASA-CASE-NPO-11609-2
		US-PATENT-4,027,524			US-PATENT-4,035,037			US-PATENT-APPL-SN-228229
		NASA-CASE-MFS-22926-1			NASA-CASE-MS-C-14905-1			US-PATENT-APPL-SN-674700
		US-PATENT-APPL-SN-557565			US-PATENT-APPL-SN-708795			US-PATENT-CLASS-210-DIG.27
N77-27366*	c 35	US-PATENT-CLASS-164-60	N77-28932*	c 74	US-PATENT-CLASS-128-DIG.12	N77-31497*	c 37	US-PATENT-CLASS-210-40
		US-PATENT-CLASS-75-135			US-PATENT-CLASS-128-214F			US-PATENT-CLASS-260-2.5A
		US-PATENT-CLASS-75-139			US-PATENT-CLASS-222-61			US-PATENT-CLASS-260-2.5AM
		US-PATENT-CLASS-75-65R			US-PATENT-CLASS-222-95			US-PATENT-CLASS-260-2.5AY
N77-27367*	c 35	US-PATENT-4,029,500	N77-28933*	c 74	US-PATENT-4,033,479	N77-32148*	c 07	US-PATENT-CLASS-260-77.5AP
		NASA-CASE-LEW-12118-1			NASA-CASE-MFS-23299-1			US-PATENT-4,039,489
		US-PATENT-APPL-SN-616332			US-PATENT-APPL-SN-700673			NASA-CASE-GSC-12075-1
		US-PATENT-CLASS-428-301			US-PATENT-CLASS-73-67.7			US-PATENT-APPL-SN-562499
N77-27368*	c 35	US-PATENT-CLASS-428-328	N77-29260*	c 26	US-PATENT-CLASS-73-88R	N77-32279*	c 26	US-PATENT-CLASS-343-17.7
		US-PATENT-CLASS-428-368			US-PATENT-4,033,182			US-PATENT-4,042,926
		US-PATENT-CLASS-428-418			NASA-CASE-LEW-12258-1			NASA-CASE-ARC-10897-1
		US-PATENT-CLASS-428-457			US-PATENT-APPL-SN-676433			US-PATENT-APPL-SN-625781
N77-27400*	c 37	US-PATENT-CLASS-428-902	N77-30236*	c 27	US-PATENT-CLASS-128-1R	N77-32280*	c 26	US-PATENT-CLASS-323-93
		US-PATENT-CLASS-428-911			US-PATENT-CLASS-128-303R			US-PATENT-CLASS-324-60
		US-PATENT-4,029,838			US-PATENT-4,033,349			US-PATENT-CLASS-340-200
		NASA-CASE-ARC-10974-1			NASA-CASE-MS-C-14623-1			US-PATENT-CLASS-340-347SH
N77-27677*	c 51	US-PATENT-APPL-SN-667010	N77-30308*	c 32	US-PATENT-APPL-SN-637269	N77-32255*	c 25	US-PATENT-4,040,041
		US-PATENT-CLASS-73-189			US-PATENT-CLASS-128-DIG.4			NASA-CASE-MFS-23118-1
		US-PATENT-CLASS-73-228			US-PATENT-CLASS-128-2.1E			US-PATENT-APPL-SN-691256
		US-PATENT-4,028,939			US-PATENT-CLASS-128-410			US-PATENT-CLASS-356-212
N77-28118*	c 07	US-PATENT-4,030,047	N77-30309*	c 32	US-PATENT-4,033,334	N77-32279*	c 26	US-PATENT-4,040,750
		NASA-CASE-GSC-12059-1			NASA-CASE-GSC-11989-1			NASA-CASE-NPO-13671-1
		US-PATENT-APPL-SN-680957			US-PATENT-APPL-SN-645500			US-PATENT-APPL-SN-564622
		US-PATENT-CLASS-331-94.5D			US-PATENT-CLASS-350-162SF			US-PATENT-CLASS-123-DIG.8

		US-PATENT-CLASS-75-170				US-PATENT-CLASS-340-347AD				US-PATENT-CLASS-3-1.2
		US-PATENT-4,046,560				US-PATENT-CLASS-350-96R				US-PATENT-CLASS-3-15
N77-32308*	c 27	NASA-CASE-GSC-12110-1	N77-32919*	c 76	NASA-CASE-MFS-23001-1	US-PATENT-4,045,792	N78-10709*	c 60	NASA-CASE-GSC-11839-2	US-PATENT-CLASS-3-29
		US-PATENT-APPL-SN-682435			US-PATENT-APPL-SN-610801	US-PATENT-CLASS-156-DIG.62			US-PATENT-4,051,558	
		US-PATENT-CLASS-156-645			US-PATENT-CLASS-156-601	US-PATENT-CLASS-156-619			US-PATENT-APPL-SN-468614	
		US-PATENT-CLASS-156-663			US-PATENT-CLASS-156-620	US-PATENT-CLASS-156-620			US-PATENT-APPL-SN-657996	
N77-32342*	c 32	US-PATENT-4,046,619			US-PATENT-CLASS-156-619	US-PATENT-CLASS-156-620			US-PATENT-CLASS-340-173LM	
		NASA-CASE-NPO-13587-1			US-PATENT-CLASS-156-620	US-PATENT-4,046,617			US-PATENT-CLASS-350-96R	
		US-PATENT-APPL-SN-589119	N78-10214*	c 24	NASA-CASE-LAR-11898-1	US-PATENT-4,052,523	N78-10837*	c 71	US-PATENT-CLASS-356-169	
		US-PATENT-CLASS-343-10			US-PATENT-APPL-SN-723264	US-PATENT-CLASS-428-116			US-PATENT-4,052,705	
		US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-428-116	US-PATENT-CLASS-428-138			NASA-CASE-NPO-13802-1	
		US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-428-138	US-PATENT-CLASS-428-73			US-PATENT-APPL-SN-658133	
		US-PATENT-CLASS-343-5DP			US-PATENT-CLASS-428-902	US-PATENT-4,052,523			US-PATENT-CLASS-264-23	
N77-32413*	c 34	US-PATENT-4,045,795			US-PATENT-4,052,523	US-PATENT-4,052,523			US-PATENT-CLASS-264-345	
		NASA-CASE-GSC-11998-1	N78-10224*	c 25	NASA-CASE-LEW-12137-1	US-PATENT-APPL-SN-672210			US-PATENT-CLASS-65-DIG.4	
		US-PATENT-APPL-SN-579989			US-PATENT-CLASS-165-105	US-PATENT-CLASS-165-105			US-PATENT-CLASS-65-DIG.7	
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-165-105	US-PATENT-CLASS-431-158			US-PATENT-CLASS-65-102	
		US-PATENT-4,046,190			US-PATENT-CLASS-431-158	US-PATENT-CLASS-431-352			US-PATENT-CLASS-65-2	
N77-32454*	c 35	NASA-CASE-LEW-12050-1			US-PATENT-CLASS-60-39.51R	US-PATENT-4,052,144			US-PATENT-CLASS-65-32	
		US-PATENT-APPL-SN-629457			US-PATENT-4,052,144	NASA-CASE-MSC-14831-1	N78-12390*	c 35	US-PATENT-CLASS-65-48	
		US-PATENT-CLASS-136-202			US-PATENT-APPL-SN-685027	US-PATENT-APPL-SN-204-292			US-PATENT-CLASS-65-87	
		US-PATENT-CLASS-136-236R			US-PATENT-CLASS-210-63R	US-PATENT-CLASS-210-71			US-PATENT-CLASS-73-505	
		US-PATENT-CLASS-136-240			US-PATENT-CLASS-210-71	US-PATENT-CLASS-252-472			US-PATENT-4,052,181	
N77-32455*	c 35	US-PATENT-4,045,247			US-PATENT-CLASS-427-229	US-PATENT-CLASS-427-229			NASA-CASE-MSC-14773-1	
		NASA-CASE-NPO-13792-1			US-PATENT-4,052,302	US-PATENT-4,052,302			US-PATENT-APPL-SN-612966	
		US-PATENT-APPL-SN-677351	N78-10225*	c 25	NASA-CASE-MSC-14916-1	US-PATENT-APPL-SN-739914			US-PATENT-CLASS-137-197	
		US-PATENT-CLASS-324-57H			US-PATENT-APPL-SN-739914	US-PATENT-CLASS-179-107R			US-PATENT-CLASS-210-222	
		US-PATENT-CLASS-324-59			US-PATENT-CLASS-179-175.1A	US-PATENT-CLASS-330-2			US-PATENT-CLASS-55-100	
N77-32456*	c 35	US-PATENT-4,045,728			US-PATENT-CLASS-330-2	US-PATENT-4,049,930			US-PATENT-CLASS-55-26-9	
		NASA-CASE-GSC-12143-1			US-PATENT-4,049,930	NASA-CASE-MFS-23280-1			US-PATENT-CLASS-55-3	
		US-PATENT-APPL-SN-743249			NASA-CASE-MFS-23280-1	US-PATENT-APPL-SN-706425			US-PATENT-CLASS-62-50	
		US-PATENT-CLASS-250-288			US-PATENT-APPL-SN-706425	US-PATENT-CLASS-318-200			US-PATENT-CLASS-62-514R	
		US-PATENT-CLASS-73-421.5R	N78-10375*	c 33	US-PATENT-CLASS-318-200	US-PATENT-CLASS-318-227			US-PATENT-4,027,494	
		US-PATENT-4,046,012			US-PATENT-CLASS-318-230	US-PATENT-4,052,648			NASA-CASE-MFS-23274-1	
N77-32478*	c 36	NASA-CASE-LEW-12164-1			US-PATENT-CLASS-318-230	US-PATENT-4,052,648	N78-13320*	c 33	US-PATENT-APPL-SN-714158	
		US-PATENT-APPL-SN-511334			US-PATENT-CLASS-363-57	US-PATENT-CLASS-363-89			US-PATENT-CLASS-307-306	
		US-PATENT-CLASS-350-162SF			US-PATENT-CLASS-363-89	US-PATENT-4,052,659			US-PATENT-CLASS-338-32S	
		US-PATENT-4,043,674			US-PATENT-4,052,659	NASA-CASE-MSC-14757-1			US-PATENT-CLASS-357-4	
N77-32499*	c 37	NASA-CASE-MSC-19535-1			US-PATENT-APPL-SN-625734	US-PATENT-CLASS-141-197			US-PATENT-CLASS-357-5	
		US-PATENT-APPL-SN-641784			US-PATENT-CLASS-141-197	US-PATENT-CLASS-141-4			US-PATENT-CLASS-357-73	
		US-PATENT-CLASS-292-110			US-PATENT-CLASS-141-4	US-PATENT-CLASS-417-225			US-PATENT-CLASS-357-73	
		US-PATENT-4,045,063			US-PATENT-CLASS-417-225	US-PATENT-CLASS-60-560			US-PATENT-4,055,847	
N77-32500*	c 37	NASA-CASE-LEW-12527-1			US-PATENT-CLASS-60-560	US-PATENT-CLASS-60-574			NASA-CASE-ARC-10639-1	
		US-PATENT-APPL-SN-595747			US-PATENT-CLASS-60-574	US-PATENT-4,051,877			US-PATENT-APPL-SN-643043	
		US-PATENT-CLASS-290-52			US-PATENT-4,051,877	NASA-CASE-NPO-13772-1			US-PATENT-CLASS-250-336	
		US-PATENT-CLASS-308-195			NASA-CASE-NPO-13772-1	US-PATENT-APPL-SN-675351			US-PATENT-CLASS-250-343	
		US-PATENT-CLASS-308-72			US-PATENT-APPL-SN-675351	US-PATENT-CLASS-250-310			US-PATENT-CLASS-250-351	
		US-PATENT-4,046,434			US-PATENT-CLASS-250-310	US-PATENT-CLASS-250-398			US-PATENT-4,055,764	
N77-32501*	c 37	NASA-CASE-LEW-12477-1			US-PATENT-CLASS-250-398	US-PATENT-4,052,614			NASA-CASE-LEW-12083-1	
		US-PATENT-APPL-SN-595745			US-PATENT-4,052,614	NASA-CASE-LEW-12321-1			US-PATENT-APPL-SN-659882	
		US-PATENT-CLASS-290-52			NASA-CASE-LEW-12321-1	US-PATENT-APPL-SN-596641			US-PATENT-CLASS-250-499	
		US-PATENT-CLASS-308-195			US-PATENT-APPL-SN-596641	US-PATENT-CLASS-123-122E			US-PATENT-CLASS-313-61S	
		US-PATENT-4,046,435			US-PATENT-CLASS-123-122E	US-PATENT-CLASS-123-41.33			US-PATENT-CLASS-427-124	
N77-32580*	c 44	NASA-CASE-NPO-13675-1			US-PATENT-CLASS-123-41.33	US-PATENT-CLASS-137-104			US-PATENT-CLASS-427-126	
		US-PATENT-APPL-SN-658132			US-PATENT-CLASS-137-104	US-PATENT-CLASS-415-180			US-PATENT-CLASS-427-248	
		US-PATENT-CLASS-204-157.1R			US-PATENT-CLASS-415-180	US-PATENT-CLASS-60-39.28R			US-PATENT-CLASS-427-250	
		US-PATENT-CLASS-250-527			US-PATENT-CLASS-60-39.28R	US-PATENT-CLASS-60-39.66			US-PATENT-CLASS-427-255	
		US-PATENT-4,045,315			US-PATENT-CLASS-60-39.66	US-PATENT-4,041,697			US-PATENT-4,055,686	
N77-32581*	c 44	NASA-CASE-NPO-13510-1			US-PATENT-4,041,697	NASA-CASE-LEW-12313-1			NASA-CASE-NPO-13482-1	
		US-PATENT-APPL-SN-536786			US-PATENT-APPL-SN-581751	US-PATENT-APPL-SN-581751			US-PATENT-APPL-SN-495021	
		US-PATENT-CLASS-126-263			US-PATENT-CLASS-416-135	US-PATENT-CLASS-416-135			US-PATENT-CLASS-136-89SJ	
		US-PATENT-CLASS-165-107			US-PATENT-CLASS-416-135	US-PATENT-CLASS-416-141			US-PATENT-CLASS-357-15	
		US-PATENT-CLASS-165-2			US-PATENT-CLASS-416-141	US-PATENT-CLASS-416-220R			US-PATENT-CLASS-357-16	
		US-PATENT-CLASS-62-4			US-PATENT-CLASS-416-220R	US-PATENT-CLASS-416-248			US-PATENT-CLASS-357-30	
		US-PATENT-4,044,821			US-PATENT-CLASS-416-248	US-PATENT-4,047,840			US-PATENT-4,053,918	
N77-32582*	c 44	NASA-CASE-NPO-13810-1			US-PATENT-CLASS-416-248	NASA-CASE-NPO-13731-1			NASA-CASE-GSC-12088-1	
		US-PATENT-APPL-SN-681096			US-PATENT-CLASS-416-248	US-PATENT-APPL-SN-653682			US-PATENT-APPL-SN-648700	
		US-PATENT-CLASS-126-270			US-PATENT-CLASS-416-248	US-PATENT-CLASS-73-15.6			US-PATENT-CLASS-356-103	
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-73-15.6	US-PATENT-CLASS-73-91			US-PATENT-CLASS-356-104	
		US-PATENT-CLASS-52-117			US-PATENT-CLASS-73-91	US-PATENT-4,030,348			US-PATENT-4,053,229	
		US-PATENT-CLASS-60-641			US-PATENT-4,030,348	NASA-CASE-GSC-11976-1			NASA-CASE-ARC-11042-1	
		US-PATENT-4,044,753			US-PATENT-APPL-SN-677352	US-PATENT-APPL-SN-677352			US-PATENT-APPL-SN-734902	
N77-32583*	c 44	NASA-CASE-NPO-13736-1			US-PATENT-CLASS-324-58.5B	US-PATENT-4,052,666			US-PATENT-CLASS-252-8.1	
		US-PATENT-APPL-SN-681017			US-PATENT-4,052,666	NASA-CASE-NPO-13734-1			US-PATENT-CLASS-60-836	
		US-PATENT-CLASS-350-295			NASA-CASE-NPO-13734-1	US-PATENT-APPL-SN-680939			US-PATENT-4,061,579	
		US-PATENT-CLASS-350-320			US-PATENT-APPL-SN-680939	US-PATENT-CLASS-126-271			NASA-CASE-ARC-10991-1	
		US-PATENT-CLASS-427-130			US-PATENT-CLASS-126-271	US-PATENT-CLASS-237-1A			US-PATENT-APPL-SN-744574	
		US-PATENT-CLASS-427-47			US-PATENT-CLASS-237-1A	US-PATENT-CLASS-350-293			US-PATENT-CLASS-204-180G	
		US-PATENT-CLASS-52-2			US-PATENT-CLASS-350-293	US-PATENT-CLASS-350-299			US-PATENT-CLASS-204-299R	
		US-PATENT-4,046,462			US-PATENT-CLASS-350-299	US-PATENT-4,051,834			US-PATENT-4,061,561	
N77-32721*	c 54	NASA-CASE-ARC-10756-1			US-PATENT-4,051,834	NASA-CASE-NPO-13734-1			NASA-CASE-NPO-13867-1	
		US-PATENT-APPL-SN-436313			NASA-CASE-NPO-13734-1	US-PATENT-APPL-SN-692284			US-PATENT-APPL-SN-692284	
		US-PATENT-CLASS-2.2.1A			US-PATENT-APPL-SN-692284	US-PATENT-CLASS-260-DIG.15			US-PATENT-CLASS-427-164	
		US-PATENT-CLASS-214-1BC			US-PATENT-CLASS-260-DIG.15	US-PATENT-CLASS-428-411			US-PATENT-CLASS-428-522	
		US-PATENT-CLASS-214-1CM			US-PATENT-CLASS-428-411	US-PATENT-CLASS-428-922			US-PATENT-CLASS-96-87A	
		US-PATENT-4,046,262			US-PATENT-CLASS-428-922	US-PATENT-4,061,834			US-PATENT-APPL-SN-712419	
N77-32722*	c 54	NASA-CASE-MSC-14771-1			US-PATENT-CLASS-96-87A	NASA-CASE-ARC-11046-1			US-PATENT-CLASS-340-27SS	
		US-PATENT-APPL-SN-688854			US-PATENT-4,061,834	US-PATENT-CLASS-73-180			US-PATENT-4,061,029	
		US-PATENT-CLASS-165-166			NASA-CASE-ARC-11046-1	NASA-CASE-MFS-19259-1			US-PATENT-APPL-SN-732630	
		US-PATENT-CLASS-55-179			US-PATENT-APPL-SN-732630					
		US-PATENT-CLASS-55-269								
		US-PATENT-4,046,529								
N77-32731*	c 60	NASA-CASE-GSC-11839-3								
		US-PATENT-APPL-SN-468614								
		US-PATENT-APPL-SN-657997								
		US-PATENT-CLASS-250-199								

				US-PATENT-CLASS-250-571				US-PATENT-CLASS-428-428				US-PATENT-APPL-SN-759220
				US-PATENT-CLASS-356-159				US-PATENT-4,062,996				US-PATENT-CLASS-260-67
				US-PATENT-CLASS-356-160				NASA-CASE-MFS-22409-2				US-PATENT-3,538,053
				US-PATENT-CLASS-356-199		N78-15880*	c 74	US-PATENT-APPL-SN-445398		N78-17215*	c 27	NASA-CASE-NPO-13764-1
				US-PATENT-4,061,427				US-PATENT-APPL-SN-636193				US-PATENT-APPL-SN-674194
N78-14452*	c 43			NASA-CASE-LEW-12217-1				US-PATENT-CLASS-250-272				US-PATENT-CLASS-128-92C
				US-PATENT-APPL-SN-763753				US-PATENT-CLASS-250-320				US-PATENT-CLASS-128-92G
				US-PATENT-CLASS-166-248				US-PATENT-4,063,088				US-PATENT-CLASS-260-42.17
				US-PATENT-CLASS-166-259		N78-16369*	c 37	NASA-CASE-NPO-13619-1				US-PATENT-CLASS-3-1.9
				US-PATENT-4,061,190				US-PATENT-APPL-SN-572990				US-PATENT-4,064,566
N78-14625*	c 44			NASA-CASE-LEW-12039-1				US-PATENT-CLASS-185-38		N78-17237*	c 31	NASA-CASE-LEW-11981-1
				US-PATENT-APPL-SN-687822				US-PATENT-CLASS-74-81				US-PATENT-APPL-SN-672220
				US-PATENT-CLASS-320-15				US-PATENT-CLASS-74-83				US-PATENT-CLASS-313-22
				US-PATENT-CLASS-320-18				US-PATENT-4,062,245				US-PATENT-CLASS-62-376
				US-PATENT-CLASS-320-40		N78-16387*	c 39	NASA-CASE-LAR-11490-1				US-PATENT-CLASS-62-514R
				US-PATENT-CLASS-320-6				US-PATENT-APPL-SN-707125				US-PATENT-4,068,495
				US-PATENT-4,061,955				US-PATENT-CLASS-358-106		N78-17238*	c 31	NASA-CASE-NPO-11978
N78-14773*	c 52			NASA-CASE-LEW-12668-1				US-PATENT-4,063,282				US-PATENT-APPL-SN-264268
				US-PATENT-APPL-SN-677353		N78-17031*	c 04	NASA-CASE-XNP-01458				US-PATENT-CLASS-313-175
				US-PATENT-CLASS-128-305				US-PATENT-APPL-SN-160093				US-PATENT-CLASS-313-176
				US-PATENT-4,061,146				US-PATENT-CLASS-235-70				US-PATENT-CLASS-313-180
N78-14784*	c 54			NASA-CASE-MSC-14632-1				US-PATENT-3,229,905				US-PATENT-CLASS-313-184
				US-PATENT-APPL-SN-571459		N78-17055*	c 07	NASA-CASE-LEW-12317-1				US-PATENT-CLASS-313-224
				US-PATENT-CLASS-204-180P				US-PATENT-APPL-SN-581750				US-PATENT-3,769,544
				US-PATENT-CLASS-204-301				US-PATENT-CLASS-60-204		N78-17293*	c 33	NASA-CASE-XLE-06094
				US-PATENT-CLASS-210-192				US-PATENT-CLASS-60-226R				US-PATENT-APPL-SN-523632
				US-PATENT-CLASS-210-96M				US-PATENT-CLASS-60-271				US-PATENT-CLASS-315-22
				US-PATENT-CLASS-23-253A				US-PATENT-4,068,469		N78-17294*	c 33	NASA-CASE-MSC-11235
				US-PATENT-4,061,570		N78-17056*	c 07	NASA-CASE-LEW-12390-1				US-PATENT-APPL-SN-698239
N78-14867*	c 71			NASA-CASE-LAR-12106-1				US-PATENT-APPL-SN-522109				US-PATENT-CLASS-307-270
				US-PATENT-APPL-SN-740156				US-PATENT-CLASS-60-226R				US-PATENT-CLASS-307-297
				US-PATENT-CLASS-330-52				US-PATENT-CLASS-74-385				US-PATENT-CLASS-323-4
				US-PATENT-CLASS-73-646				US-PATENT-CLASS-74-417				US-PATENT-CLASS-328-172
				US-PATENT-4,061,041		N78-17140*	c 17	US-PATENT-4,068,470				US-PATENT-3,573,504
N78-14889*	c 74			NASA-CASE-KSC-11047-1				NASA-CASE-HQN-10880-1		N78-17295*	c 33	NASA-CASE-XGS-09186
				US-PATENT-APPL-SN-715485				US-PATENT-APPL-SN-595254				US-PATENT-APPL-SN-669911
				US-PATENT-CLASS-179-91R				US-PATENT-CLASS-325-118				US-PATENT-CLASS-323-18
				US-PATENT-CLASS-250-199				US-PATENT-CLASS-325-66				US-PATENT-3,475,675
				US-PATENT-CLASS-358-142				US-PATENT-CLASS-343-112R		N78-17296*	c 33	NASA-CASE-GSC-10135
				US-PATENT-4,061,577				US-PATENT-CLASS-343-225				US-PATENT-APPL-SN-764823
N78-15180*	c 24			NASA-CASE-ARC-10913-1				US-PATENT-CLASS-362-269				US-PATENT-CLASS-307-53
				US-PATENT-APPL-SN-698646				US-PATENT-4,067,015				US-PATENT-CLASS-307-69
				US-PATENT-CLASS-106-15FP		N78-17149*	c 24	NASA-CASE-LAR-11898-2				US-PATENT-CLASS-320-53
				US-PATENT-CLASS-260-2.5N				US-PATENT-APPL-SN-723264				US-PATENT-CLASS-323-19
				US-PATENT-CLASS-260-2.5R				US-PATENT-APPL-SN-799024				US-PATENT-3,600,599
				US-PATENT-CLASS-428-117				US-PATENT-CLASS-156-245		N78-17335*	c 34	NASA-CASE-LEW-12508-1
				US-PATENT-CLASS-428-290				US-PATENT-CLASS-156-285				US-PATENT-APPL-SN-746580
				US-PATENT-CLASS-428-71				US-PATENT-CLASS-156-289				US-PATENT-CLASS-62-3
				US-PATENT-CLASS-428-73				US-PATENT-CLASS-428-116				US-PATENT-4,069,028
				US-PATENT-CLASS-428-920				US-PATENT-CLASS-428-902		N78-17336*	c 34	NASA-CASE-ARC-10198
				US-PATENT-4,061,812				US-PATENT-4,063,981				US-PATENT-APPL-SN-42088
N78-15210*	c 25			NASA-CASE-LAR-12046-1		N78-17150*	c 24	NASA-CASE-LAR-12019-1				US-PATENT-CLASS-165-105
				US-PATENT-APPL-SN-755310				US-PATENT-APPL-SN-792067				US-PATENT-CLASS-165-134
				US-PATENT-CLASS-23-230PC				US-PATENT-CLASS-156-154				US-PATENT-3,777,811
				US-PATENT-CLASS-23-232E				US-PATENT-CLASS-156-264		N78-17337*	c 34	NASA-CASE-ARC-10199
				US-PATENT-CLASS-23-232R				US-PATENT-CLASS-156-285				US-PATENT-APPL-SN-824628
				US-PATENT-CLASS-73-23				US-PATENT-CLASS-156-286				US-PATENT-CLASS-165-105
				US-PATENT-4,062,650				US-PATENT-CLASS-156-289				US-PATENT-CLASS-165-32
N78-15276*	c 27			NASA-CASE-LEW-12053-1				US-PATENT-CLASS-156-300				US-PATENT-CLASS-165-96
				US-PATENT-APPL-SN-513613				US-PATENT-CLASS-156-306				US-PATENT-CLASS-2.2.1
				US-PATENT-CLASS-260-2R				US-PATENT-CLASS-156-311				US-PATENT-3,543,839
				US-PATENT-CLASS-526-193				US-PATENT-CLASS-264-157		N78-17357*	c 35	NASA-CASE-MFS-23194-1
				US-PATENT-CLASS-526-225				US-PATENT-CLASS-264-90				US-PATENT-APPL-SN-629458
				US-PATENT-CLASS-544-193				US-PATENT-CLASS-428-294				US-PATENT-CLASS-350-3.5
				US-PATENT-4,061,856				US-PATENT-CLASS-428-302				US-PATENT-4,065,202
N78-15323*	c 32			NASA-CASE-NPO-13836-1				US-PATENT-4,065,340		N78-17358*	c 35	NASA-CASE-MSC-11242
				US-PATENT-APPL-SN-699002				NASA-CASE-LAR-12181-1				US-PATENT-APPL-SN-636796
				US-PATENT-CLASS-178-69.1				US-PATENT-APPL-SN-532784				US-PATENT-CLASS-73-67.2
				US-PATENT-CLASS-325-58				US-PATENT-APPL-SN-734901				US-PATENT-3,492,858
				US-PATENT-CLASS-325-63				US-PATENT-CLASS-156-309		N78-17359*	c 35	NASA-CASE-NPO-11150
				US-PATENT-CLASS-343-179				US-PATENT-CLASS-156-331				US-PATENT-APPL-SN-858950
				US-PATENT-4,061,974				US-PATENT-CLASS-260-30.4N				US-PATENT-CLASS-338-100
N78-15461*	c 35			NASA-CASE-NPO-13808-1				US-PATENT-CLASS-260-32.2R				US-PATENT-CLASS-338-36
				US-PATENT-APPL-SN-675328				US-PATENT-CLASS-260-32.6NT				US-PATENT-CLASS-338-99
				US-PATENT-CLASS-250-322				US-PATENT-CLASS-260-33.4R				US-PATENT-3,641,470
				US-PATENT-CLASS-250-416TV				US-PATENT-4,065,345		N78-17366*	c 36	NASA-CASE-MFS-22597
				US-PATENT-4,063,092				NASA-CASE-LAR-11902-1				US-PATENT-APPL-SN-395895
N78-15512*	c 39			NASA-CASE-LAR-12016-1		N78-17206*	c 27	US-PATENT-APPL-SN-672695				US-PATENT-CLASS-315-108
				US-PATENT-APPL-SN-754066				US-PATENT-CLASS-106-43				US-PATENT-CLASS-331-94.5G
				US-PATENT-CLASS-73-579				US-PATENT-CLASS-60-200A				US-PATENT-CLASS-331-94.5T
				US-PATENT-CLASS-73-630				US-PATENT-CLASS-75-229				US-PATENT-3,882,417
				US-PATENT-CLASS-73-88F				US-PATENT-CLASS-75-239		N78-17383*	c 37	NASA-CASE-MSC-19666-1
				US-PATENT-4,062,227				US-PATENT-CLASS-75-241				US-PATENT-APPL-SN-721150
N78-15560*	c 44			NASA-CASE-LAR-12009-1				US-PATENT-4,067,742				US-PATENT-CLASS-118-50
				US-PATENT-APPL-SN-717320				NASA-CASE-MSC-14331-2				US-PATENT-CLASS-118-500
				US-PATENT-CLASS-126-270		N78-17213*	c 27	US-PATENT-APPL-SN-657907				US-PATENT-CLASS-248-36.3
				US-PATENT-CLASS-128-400				US-PATENT-CLASS-260-75NH				US-PATENT-CLASS-269-21
				US-PATENT-CLASS-237-1A				US-PATENT-CLASS-260-75NK				US-PATENT-CLASS-279-3
				US-PATENT-4,062,347				US-PATENT-CLASS-260-75NT				US-PATENT-CLASS-51-235
N78-15879*	c 74			NASA-CASE-LAR-10385-3				US-PATENT-CLASS-260-77.5AM				US-PATENT-4,066,039
				US-PATENT-APPL-SN-370999				US-PATENT-CLASS-260-77.5AN		N78-17384*	c 37	NASA-CASE-LEW-12916-1
				US-PATENT-APPL-SN-38816				US-PATENT-CLASS-260-77.5AP				US-PATENT-APPL-SN-583056
				US-PATENT-CLASS-350-1				US-PATENT-CLASS-260-77.5AT				US-PATENT-CLASS-60-261
				US-PATENT-CLASS-428-334				US-PATENT-CLASS-260-77.55P				US-PATENT-CLASS-60-262
				US-PATENT-CLASS-428-336				US-PATENT-4,069,212				
				US-PATENT-CLASS-428-426		N78-17214*	c 27	NASA-CASE-NPO-10557				

N78-17385*	c 37	US-PATENT-4,064,692	N78-18083*	c 09	US-PATENT-CLASS-60-262	N78-24275*	c 20	NASA-CASE-LAR-12018-1
		NASA-CASE-WOO-00625			US-PATENT-4,069,661			US-PATENT-APPL-SN-678520
		US-PATENT-APPL-SN-362278			NASA-CASE-ARC-10903-1			US-PATENT-CLASS-102-39
N78-17386*	c 37	US-PATENT-CLASS-74-800	N78-18182*	c 26	US-PATENT-APPL-SN-623536	N78-24290*	c 24	US-PATENT-CLASS-102-49.7
		US-PATENT-3,306,134			US-PATENT-CLASS-35-12N			US-PATENT-CLASS-102-70R
		NASA-CASE-NPO-10151			US-PATENT-CLASS-358-104			US-PATENT-CLASS-285-192
N78-17395*	c 38	US-PATENT-APPL-SN-365244	N78-18183*	c 26	US-PATENT-4,055,004	N78-24333*	c 26	US-PATENT-CLASS-60-39.82E
		US-PATENT-CLASS-328-233			NASA-CASE-LEW-12095-1			US-PATENT-4,080,901
		US-PATENT-3,387,218			US-PATENT-APPL-SN-651009			NASA-CASE-MFS-23506-1
N78-17396*	c 38	NASA-CASE-NPO-13283	N78-18308*	c 33	US-PATENT-CLASS-75-124	N78-24365*	c 28	US-PATENT-APPL-SN-760809
		US-PATENT-APPL-SN-401225			US-PATENT-CLASS-75-126D			US-PATENT-CLASS-260-2.5AK
		US-PATENT-CLASS-235-151.3			US-PATENT-CLASS-75-126F			US-PATENT-CLASS-260-2.5AP
N78-17450*	c 44	US-PATENT-CLASS-235-156	N78-18355*	c 34	US-PATENT-CLASS-75-128G	N78-24391*	c 32	US-PATENT-CLASS-260-2.5B
		US-PATENT-CLASS-235-181			US-PATENT-CLASS-75-128T			US-PATENT-CLASS-260-2.5BE
		US-PATENT-CLASS-250-572			US-PATENT-4,055,416			US-PATENT-CLASS-260-2.5EP
N78-17675*	c 54	US-PATENT-CLASS-356-237	N78-18390*	c 35	US-PATENT-CLASS-356-237	N78-24515*	c 35	US-PATENT-CLASS-260-2.5FP
		US-PATENT-3,908,118			NASA-CASE-NPO-13282			US-PATENT-CLASS-260-29.1R
		NASA-CASE-NPO-13282			US-PATENT-APPL-SN-401224			US-PATENT-CLASS-260-37EP
N78-17676*	c 54	US-PATENT-CLASS-235-151.3	N78-18391*	c 35	US-PATENT-CLASS-235-151.3	N78-24544*	c 37	US-PATENT-CLASS-427-427
		US-PATENT-CLASS-235-156			US-PATENT-CLASS-235-156			US-PATENT-4,077,921
		US-PATENT-CLASS-250-563			US-PATENT-CLASS-250-572			NASA-CASE-MSC-19693-1
N78-17677*	c 54	US-PATENT-CLASS-356-165	N78-18395* #	c 35	US-PATENT-CLASS-356-165	N78-24608*	c 44	US-PATENT-APPL-SN-708771
		US-PATENT-CLASS-356-237			US-PATENT-3,909,602			US-PATENT-CLASS-148-12.7A
		NASA-CASE-NPO-13579-1			US-PATENT-APPL-SN-598969			US-PATENT-CLASS-148-125
N78-17678*	c 54	US-PATENT-CLASS-126-263	N78-18410*	c 36	US-PATENT-CLASS-126-271	N78-24609*	c 44	US-PATENT-4,077,813
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-165-2			NASA-CASE-LEW-12081-1
		US-PATENT-CLASS-237-1A			US-PATENT-CLASS-237-1A			US-PATENT-APPL-SN-676432
N78-17679*	c 54	US-PATENT-CLASS-60-641	N78-18905*	c 74	US-PATENT-CLASS-60-641	N78-24950*	c 76	US-PATENT-CLASS-250-492R
		US-PATENT-CLASS-62-4			US-PATENT-CLASS-62-4			US-PATENT-CLASS-34-15
		US-PATENT-4,065,053			US-PATENT-4,065,053			US-PATENT-CLASS-423-648R
N78-17680*	c 54	NASA-CASE-ARC-11101-1	N78-19302*	c 27	NASA-CASE-ARC-11101-1	N78-25089*	c 07	US-PATENT-CLASS-62-100
		US-PATENT-APPL-SN-753976			US-PATENT-APPL-SN-753976			US-PATENT-CLASS-62-48
		US-PATENT-CLASS-2-2.1A			US-PATENT-CLASS-2-2.1A			US-PATENT-4,077,788
N78-17686*	c 74	US-PATENT-CLASS-36-119	N78-19465*	c 35	US-PATENT-CLASS-36-119	N78-25090*	c 07	NASA-CASE-NPO-13886-1
		US-PATENT-CLASS-36-92			US-PATENT-CLASS-36-92			US-PATENT-APPL-SN-730045
		US-PATENT-4,064,642			US-PATENT-4,064,642			US-PATENT-CLASS-307-151
N78-17691*	c 60	NASA-CASE-MFS-23311-1	N78-19466*	c 35	NASA-CASE-MFS-23311-1	N78-25119*	c 15	US-PATENT-CLASS-343-700MS
		US-PATENT-APPL-SN-708800			US-PATENT-APPL-SN-708800			US-PATENT-CLASS-361-395
		US-PATENT-CLASS-214-1CM			US-PATENT-CLASS-214-1CM			US-PATENT-4,079,268
N78-17696*	c 54	US-PATENT-CLASS-3-12.5	N78-19466*	c 35	US-PATENT-CLASS-3-12.5	N78-25119*	c 15	NASA-CASE-LAR-12011-1
		US-PATENT-CLASS-74-515E			US-PATENT-CLASS-74-515E			US-PATENT-APPL-SN-788705
		US-PATENT-4,068,763			US-PATENT-4,068,763			US-PATENT-CLASS-416-144
N78-17697*	c 54	NASA-CASE-MSC-13054	N78-19466*	c 35	NASA-CASE-MSC-13054	N78-25119*	c 15	US-PATENT-CLASS-416-61
		US-PATENT-APPL-SN-585217			US-PATENT-APPL-SN-585217			US-PATENT-CLASS-73-456
		US-PATENT-CLASS-2-181			US-PATENT-CLASS-2-181			US-PATENT-CLASS-73-756
N78-17698*	c 54	US-PATENT-3,490,074	N78-19466*	c 35	US-PATENT-3,490,074	N78-25119*	c 15	US-PATENT-4,082,001
		NASA-CASE-XMS-04670			NASA-CASE-XMS-04670			NASA-CASE-MSC-16000-1
		US-PATENT-APPL-SN-535169			US-PATENT-APPL-SN-535169			US-PATENT-APPL-SN-739915
N78-17699*	c 54	US-PATENT-CLASS-2-2.1	N78-19466*	c 35	US-PATENT-CLASS-2-2.1	N78-25119*	c 15	US-PATENT-CLASS-29-156.8R
		US-PATENT-3,488,771			US-PATENT-3,488,771			US-PATENT-CLASS-29-23.5
		NASA-CASE-XMS-04928			NASA-CASE-XMS-04928			US-PATENT-CLASS-29-244
N78-17680*	c 54	US-PATENT-APPL-SN-584914	N78-19466*	c 35	US-PATENT-APPL-SN-584914	N78-25119*	c 15	US-PATENT-CLASS-29-252
		US-PATENT-CLASS-98-1			US-PATENT-CLASS-98-1			US-PATENT-4,078,290
		US-PATENT-3,487,765			US-PATENT-3,487,765			NASA-CASE-LEW-12785-1
N78-17680*	c 54	NASA-CASE-XMS-09653	N78-19466*	c 35	NASA-CASE-XMS-09653	N78-25119*	c 15	US-PATENT-APPL-SN-739909
		US-PATENT-APPL-SN-538863			US-PATENT-APPL-SN-538863			US-PATENT-CLASS-60-39.28R
		US-PATENT-CLASS-2-6			US-PATENT-CLASS-2-6			US-PATENT-4,078,378
N78-17691*	c 60	US-PATENT-3,359,568	N78-19466*	c 35	US-PATENT-3,359,568	N78-25119*	c 15	NASA-CASE-GSC-12030-1
		NASA-CASE-GSC-12044-1			NASA-CASE-GSC-12044-1			US-PATENT-APPL-SN-710035
		US-PATENT-APPL-SN-631341			US-PATENT-APPL-SN-631341			US-PATENT-CLASS-308-10
N78-17865*	c 74	US-PATENT-CLASS-340-347DD	N78-19466*	c 35	US-PATENT-CLASS-340-347DD	N78-25119*	c 15	US-PATENT-CLASS-310-153
		US-PATENT-4,069,478			US-PATENT-4,069,478			US-PATENT-CLASS-310-154
		NASA-CASE-MSC-12618-1			NASA-CASE-MSC-12618-1			US-PATENT-CLASS-310-178
N78-17866*	c 74	US-PATENT-APPL-SN-651007	N78-19466*	c 35	US-PATENT-APPL-SN-651007	N78-25119*	c 15	US-PATENT-CLASS-310-269
		US-PATENT-CLASS-350-159			US-PATENT-CLASS-350-159			US-PATENT-4,077,678
		US-PATENT-CLASS-358-225			US-PATENT-CLASS-358-225			NASA-CASE-GSC-12022-2
N78-17867*	c 74	US-PATENT-CLASS-358-41	N78-19466*	c 35	US-PATENT-CLASS-358-41	N78-25119*	c 15	US-PATENT-APPL-SN-693074
		US-PATENT-CLASS-358-55			US-PATENT-CLASS-358-55			US-PATENT-CLASS-136-89SG
		US-PATENT-4,067,043			US-PATENT-4,067,043			US-PATENT-CLASS-148-174
N78-17866*	c 74	NASA-CASE-LAR-11711-1	N78-19466*	c 35	NASA-CASE-LAR-11711-1	N78-25119*	c 15	US-PATENT-CLASS-29-572
		US-PATENT-APPL-SN-674195			US-PATENT-APPL-SN-674195			US-PATENT-CLASS-357-30
		US-PATENT-CLASS-250-201			US-PATENT-CLASS-250-201			US-PATENT-CLASS-357-59
N78-17867*	c 74	US-PATENT-CLASS-350-204	N78-19466*	c 35	US-PATENT-CLASS-350-204	N78-25119*	c 15	US-PATENT-CLASS-427-113
		US-PATENT-CLASS-356-28			US-PATENT-CLASS-356-28			US-PATENT-CLASS-427-248J
		US-PATENT-4,063,814			US-PATENT-4,063,814			US-PATENT-CLASS-427-249
N78-17867*	c 74	US-PATENT-CLASS-356-204	N78-19466*	c 35	US-PATENT-CLASS-356-204	N78-25119*	c 15	US-PATENT-CLASS-427-86
		US-PATENT-CLASS-356-246			US-PATENT-CLASS-356-246			US-PATENT-4,077,818
		US-PATENT-4,067,653			US-PATENT-4,067,653			NASA-CASE-MFS-23315-1
N78-18066*	c 07	NASA-CASE-LEW-12389-2	N78-19599*	c 44	NASA-CASE-LEW-12389-2	N78-25089*	c 07	US-PATENT-APPL-SN-724874
		US-PATENT-APPL-SN-628221			US-PATENT-APPL-SN-628221			US-PATENT-CLASS-250-277CH
		US-PATENT-CLASS-244-53A			US-PATENT-CLASS-244-53A			US-PATENT-CLASS-250-280
N78-18067*	c 07	US-PATENT-CLASS-244-54	N78-19599*	c 44	US-PATENT-CLASS-244-54	N78-25089*	c 07	US-PATENT-4,078,175
		US-PATENT-CLASS-60-226R			US-PATENT-CLASS-60-226R			NASA-CASE-LEW-12452-1
		US-PATENT-CLASS-60-39.31			US-PATENT-CLASS-60-39.31			US-PATENT-APPL-SN-695513
N78-18067*	c 07	US-PATENT-4,055,041	N78-19920*	c 73	US-PATENT-4,055,041	N78-25090*	c 07	US-PATENT-CLASS-60-226R
		NASA-CASE-LEW-12917-1			NASA-CASE-LEW-12917-1			US-PATENT-CLASS-60-39.52
		US-PATENT-APPL-SN-583055			US-PATENT-APPL-SN-583055			US-PATENT-4,083,181
N78-18067*	c 07	US-PATENT-CLASS-60-204	N78-19920*	c 73	US-PATENT-CLASS-60-204	N78-25090*	c 07	NASA-CASE-LEW-11855-1
		US-PATENT-CLASS-60-204			US-PATENT-CLASS-60-204			US-PATENT-APPL-SN-67222

N78-25148*	c 25	US-PATENT-4,083,520	N78-27176* #	c 20	NASA-CASE-MFS-23642-2	N78-28594*	c 44	US-PATENT-4,088,951		
		NASA-CASE-LEW-12465-1			US-PATENT-APPL-SN-923758			NASA-CASE-NPO-13821-1		
		US-PATENT-APPL-SN-692413			NASA-CASE-ARC-11043-1			US-PATENT-APPL-SN-688852		
		US-PATENT-CLASS-250-423P			US-PATENT-APPL-SN-753964			US-PATENT-CLASS-343-113R		
		US-PATENT-CLASS-250-528			US-PATENT-CLASS-260-33.6EP			US-PATENT-CLASS-343-119		
		US-PATENT-CLASS-250-531			US-PATENT-CLASS-260-33.6PQ			US-PATENT-CLASS-343-16M		
		US-PATENT-CLASS-55-100			US-PATENT-CLASS-260-33.8EP			US-PATENT-4,088,999		
		US-PATENT-CLASS-55-101			US-PATENT-CLASS-260-33.8UA			NASA-CASE-NPO-13114-2		
		US-PATENT-CLASS-55-2			US-PATENT-CLASS-260-37EP			US-PATENT-APPL-SN-294738		
		US-PATENT-4,085,332			US-PATENT-CLASS-260-42.43			US-PATENT-APPL-SN-634214		
N78-25256*	c 31	NASA-CASE-NPO-13839-1			US-PATENT-CLASS-260-45.7R			US-PATENT-CLASS-176-22		
		US-PATENT-APPL-SN-712981			US-PATENT-CLASS-260-45.75W			US-PATENT-CLASS-176-33		
		US-PATENT-CLASS-250-332			US-PATENT-CLASS-260-45.85N			US-PATENT-CLASS-176-39		
		US-PATENT-CLASS-313-22			US-PATENT-CLASS-260-45.9R			US-PATENT-4,085,004		
		US-PATENT-CLASS-62-514R			US-PATENT-CLASS-427-386			NASA-CASE-NPO-11954-1		
N78-25319*	c 33	US-PATENT-4,077,231			US-PATENT-CLASS-427-388A			US-PATENT-APPL-SN-229287		
		NASA-CASE-NPO-13909-1			US-PATENT-CLASS-428-313			US-PATENT-CLASS-179-100.2CH		
		US-PATENT-APPL-SN-744477			US-PATENT-CLASS-428-332			US-PATENT-CLASS-340-174.1M		
		US-PATENT-CLASS-324-57DE			US-PATENT-CLASS-428-921			US-PATENT-CLASS-340-174YC		
		US-PATENT-CLASS-324-57SS			US-PATENT-4,088,806			US-PATENT-CLASS-350-151		
N78-25350*	c 34	US-PATENT-CLASS-324-58A	N78-27184* #	c 24	NASA-CASE-ARC-11040-2			US-PATENT-3,775,570		
		US-PATENT-4,084,132			US-PATENT-APPL-SN-920878			NASA-CASE-MSC-19706-1		
		NASA-CASE-MSC-19568-1			NASA-CASE-LEW-10518-3			US-PATENT-APPL-SN-767911		
		US-PATENT-APPL-SN-681000			US-PATENT-APPL-SN-394207			US-PATENT-CLASS-239-265.25		
		US-PATENT-CLASS-428-913			US-PATENT-CLASS-176-11			US-PATENT-CLASS-73-147		
		US-PATENT-CLASS-428-93			US-PATENT-CLASS-176-16			US-PATENT-4,091,665		
		US-PATENT-CLASS-428-94			US-PATENT-CLASS-250-400			NASA-CASE-ARC-11008-1		
		US-PATENT-CLASS-428-95			US-PATENT-CLASS-250-429			US-PATENT-APPL-SN-708951		
		US-PATENT-CLASS-428-96			US-PATENT-CLASS-250-492B			US-PATENT-CLASS-260-2.5N		
		US-PATENT-CLASS-428-97			US-PATENT-4,088,532			US-PATENT-CLASS-260-47CP		
		US-PATENT-CLASS-49-DIG.1	N78-27326*	c 33	NASA-CASE-MFS-23312-1			US-PATENT-CLASS-260-63N		
		US-PATENT-CLASS-49-479			US-PATENT-APPL-SN-699012			US-PATENT-CLASS-260-78.41		
		US-PATENT-CLASS-49-485			US-PATENT-CLASS-29-571			US-PATENT-4,092,274		
		US-PATENT-4,078,110			US-PATENT-CLASS-29-578			NASA-CASE-ARC-11057-1		
		NASA-CASE-LEW-12718-1			US-PATENT-CLASS-357-91			US-PATENT-APPL-SN-807762		
N78-25351*	c 34	US-PATENT-APPL-SN-779428	N78-27357*	c 34	NASA-CASE-LEW-11877-1			US-PATENT-CLASS-350-165		
		US-PATENT-CLASS-137-484.2			US-PATENT-APPL-SN-708660			US-PATENT-CLASS-350-175NG		
		US-PATENT-CLASS-137-501			US-PATENT-CLASS-431-10			US-PATENT-CLASS-427-164		
		US-PATENT-CLASS-137-505.16			US-PATENT-CLASS-431-328			US-PATENT-CLASS-427-40		
		US-PATENT-4,084,612			US-PATENT-CLASS-431-7			US-PATENT-CLASS-427-41		
N78-25391*	c 35	NASA-CASE-NPO-13948-1			US-PATENT-CLASS-60-39.65			US-PATENT-CLASS-428-411		
		US-PATENT-APPL-SN-752748			US-PATENT-CLASS-60-39.69R			US-PATENT-CLASS-428-412		
		US-PATENT-CLASS-204-195W			US-PATENT-CLASS-60-39.69R			US-PATENT-CLASS-428-422		
		US-PATENT-CLASS-73-336.5			US-PATENT-4,087,962			US-PATENT-CLASS-428-447		
		US-PATENT-4,083,765			NASA-CASE-LAR-11973-1			US-PATENT-CLASS-428-515		
N78-25426*	c 37	NASA-CASE-MSC-12731-1	N78-27384*	c 35	US-PATENT-APPL-SN-821681			US-PATENT-CLASS-428-523		
		US-PATENT-APPL-SN-690816			US-PATENT-CLASS-73-170A			US-PATENT-CLASS-428-538		
		US-PATENT-CLASS-137-505.25			US-PATENT-CLASS-73-425.4R			US-PATENT-4,091,166		
		US-PATENT-CLASS-137-625.3			US-PATENT-CLASS-73-61R			NASA-CASE-NPO-14103-1		
		US-PATENT-CLASS-137-625.38			US-PATENT-4,089,209			US-PATENT-APPL-SN-797210		
N78-25527*	c 44	US-PATENT-4,083,380	N78-27402*	c 36	NASA-CASE-NPO-13945-1			US-PATENT-CLASS-149-105		
		NASA-CASE-LEW-12552-1			US-PATENT-APPL-SN-704180			US-PATENT-CLASS-149-111		
		US-PATENT-APPL-SN-770869			US-PATENT-CLASS-331-94.5G			US-PATENT-CLASS-149-19.4		
		US-PATENT-CLASS-136-89CC			US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-149-19.8		
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-331-94.5PE			US-PATENT-CLASS-149-88		
		US-PATENT-CLASS-357-30			US-PATENT-4,088,965			US-PATENT-CLASS-149-92		
		US-PATENT-CLASS-357-65			NASA-CASE-MSC-16270-1			US-PATENT-CLASS-149-93		
		US-PATENT-CLASS-357-67			US-PATENT-APPL-SN-837260			US-PATENT-4,092,188		
		US-PATENT-CLASS-427-261			US-PATENT-CLASS-269-21			NASA-CASE-NPO-14022-1		
		US-PATENT-CLASS-427-75			US-PATENT-CLASS-269-266			US-PATENT-APPL-SN-780728		
N78-25528*	c 44	US-PATENT-4,082,569	N78-27424*	c 37	US-PATENT-4,088,312			US-PATENT-CLASS-343-781CA		
		NASA-CASE-LEW-12185-1			NASA-CASE-LAR-11889-2			US-PATENT-CLASS-343-782		
		US-PATENT-APPL-SN-746269			US-PATENT-APPL-SN-662182			US-PATENT-CLASS-343-837		
		US-PATENT-CLASS-136-89H			US-PATENT-APPL-SN-807703			US-PATENT-4,092,648		
		US-PATENT-CLASS-136-89P			US-PATENT-CLASS-308-10			NASA-CASE-GSC-11883-2		
N78-25529*	c 44	US-PATENT-CLASS-29-572			US-PATENT-CLASS-73-178R			US-PATENT-APPL-SN-596787		
		US-PATENT-CLASS-29-628			US-PATENT-4,088,018			US-PATENT-APPL-SN-747675		
		US-PATENT-4,083,097			N78-27425*			c 37	NASA-CASE-ARC-10981-1	US-PATENT-CLASS-60-527
		NASA-CASE-LEW-12541-1							US-PATENT-APPL-SN-738218	US-PATENT-CLASS-74-100R
		US-PATENT-APPL-SN-790637							US-PATENT-CLASS-248-178	US-PATENT-4,010,455
US-PATENT-CLASS-136-89CC	US-PATENT-CLASS-248-186	US-PATENT-4,092,874								
		US-PATENT-CLASS-136-89H			US-PATENT-4,088,291			NASA-CASE-NPO-13581-2		
		US-PATENT-CLASS-136-89P			NASA-CASE-NPO-12148-1			US-PATENT-APPL-SN-590975		
		US-PATENT-CLASS-156-633			US-PATENT-APPL-SN-709415			US-PATENT-APPL-SN-811815		
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-136-89P			US-PATENT-CLASS-126-271		
		US-PATENT-4,084,985			US-PATENT-4,089,705			US-PATENT-CLASS-237-1A		
N78-25530*	c 44	NASA-CASE-LEW-12649-1	N78-27733*	c 51	NASA-CASE-ARC-10917-1			US-PATENT-4,091,800		
		US-PATENT-APPL-SN-720521			US-PATENT-APPL-SN-672223			NASA-CASE-NPO-13813-1		
		US-PATENT-CLASS-427-385B			US-PATENT-CLASS-119-29			NASA-CASE-NPO-13914-1		
		US-PATENT-CLASS-427-385C			US-PATENT-4,088,094			US-PATENT-APPL-SN-765139		
		US-PATENT-CLASS-429-254			N78-27904*			c 74	NASA-CASE-LAR-11869-1	US-PATENT-CLASS-126-270
US-PATENT-4,085,241	US-PATENT-APPL-SN-740155	US-PATENT-CLASS-126-271								
NASA-CASE-MFS-23270-1	US-PATENT-CLASS-356-120	US-PATENT-CLASS-350-299								
US-PATENT-APPL-SN-744573	US-PATENT-CLASS-356-167	US-PATENT-4,091,798								
N78-25531*	c 44	US-PATENT-CLASS-320-13			US-PATENT-4,088,408			NASA-CASE-NPO-13937-1		
		US-PATENT-CLASS-320-15			NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN-718137		
		US-PATENT-CLASS-320-32			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-201-17		
		US-PATENT-CLASS-320-39			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-1R		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-44-2		
N78-27121*	c 07	US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2			US-PATENT-4,081,250		
		NASA-CASE-LAR-11919-1			US-PATENT-4,088,926			NASA-CASE-ARC-11058-1		
		US-PATENT-APPL-SN-672221			NASA-CASE-KSC-11035-1			US-PATENT-APPL-SN-753965		
		US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-2.2.1A		
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130			US-PATENT-CLASS-285-235		
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32			US-PATENT-4,091,464		
		US-PATENT-4,088,270			US-PATENT-CLASS-324-74			NASA-CASE-ARC-11100-1		
		NASA-CASE-MFS-23270-1			US-PATENT-APPL-SN-740155					
		US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-120					
		US-PATENT-CLASS-320-13			US-PATENT-CLASS-356-167					
		US-PATENT-CLASS-320-15			US-PATENT-4,088,408			NASA-CASE-NPO-13937-1		
		US-PATENT-CLASS-320-32			NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN-718137		
		US-PATENT-CLASS-320-39			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-201-17		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-1R		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-44-2		
		US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2			US-PATENT-4,081,250		
		NASA-CASE-LAR-11919-1			US-PATENT-4,088,926			NASA-CASE-ARC-11058-1		
		US-PATENT-APPL-SN-672221			NASA-CASE-KSC-11035-1			US-PATENT-APPL-SN-753965		
		US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-2.2.1A		
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130			US-PATENT-CLASS-285-235		
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32			US-PATENT-4,091,464		
		US-PATENT-4,088,270			US-PATENT-CLASS-324-74			NASA-CASE-ARC-11100-1		
		NASA-CASE-MFS-23270-1			US-PATENT-APPL-SN-740155					
		US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-120					
		US-PATENT-CLASS-320-13			US-PATENT-CLASS-356-167					
		US-PATENT-CLASS-320-15			US-PATENT-4,088,408			NASA-CASE-NPO-13937-1		
		US-PATENT-CLASS-320-32			NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN-718137		
		US-PATENT-CLASS-320-39			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-201-17		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-1R		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-44-2		
		US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2			US-PATENT-4,081,250		
		NASA-CASE-LAR-11919-1			US-PATENT-4,088,926			NASA-CASE-ARC-11058-1		
		US-PATENT-APPL-SN-672221			NASA-CASE-KSC-11035-1			US-PATENT-APPL-SN-753965		
		US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-2.2.1A		
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130			US-PATENT-CLASS-285-235		
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32			US-PATENT-4,091,464		
		US-PATENT-4,088,270			US-PATENT-CLASS-324-74			NASA-CASE-ARC-11100-1		
		NASA-CASE-MFS-23270-1			US-PATENT-APPL-SN-740155					
		US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-120					
		US-PATENT-CLASS-320-13			US-PATENT-CLASS-356-167					
		US-PATENT-CLASS-320-15			US-PATENT-4,088,408			NASA-CASE-NPO-13937-1		
		US-PATENT-CLASS-320-32			NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN-718137		
		US-PATENT-CLASS-320-39			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-201-17		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-1R		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-44-2		
		US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2			US-PATENT-4,081,250		
		NASA-CASE-LAR-11919-1			US-PATENT-4,088,926			NASA-CASE-ARC-11058-1		
		US-PATENT-APPL-SN-672221			NASA-CASE-KSC-11035-1			US-PATENT-APPL-SN-753965		
		US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-2.2.1A		
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130			US-PATENT-CLASS-285-235		
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32			US-PATENT-4,091,464		
		US-PATENT-4,088,270			US-PATENT-CLASS-324-74			NASA-CASE-ARC-11100-1		
		NASA-CASE-MFS-23270-1			US-PATENT-APPL-SN-740155					
		US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-120					
		US-PATENT-CLASS-320-13			US-PATENT-CLASS-356-167					
		US-PATENT-CLASS-320-15			US-PATENT-4,088,408			NASA-CASE-NPO-13937-1		
		US-PATENT-CLASS-320-32			NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN-718137		
		US-PATENT-CLASS-320-39			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-201-17		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-1R		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-44-2		
		US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2			US-PATENT-4,081,250		
		NASA-CASE-LAR-11919-1			US-PATENT-4,088,926			NASA-CASE-ARC-11058-1		
		US-PATENT-APPL-SN-672221			NASA-CASE-KSC-11035-1			US-PATENT-APPL-SN-753965		
		US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-2.2.1A		
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130			US-PATENT-CLASS-285-235		
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32			US-PATENT-4,091,464		
		US-PATENT-4,088,270			US-PATENT-CLASS-324-74			NASA-CASE-ARC-11100-1		
		NASA-CASE-MFS-23270-1			US-PATENT-APPL-SN-740155					
		US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-120					
		US-PATENT-CLASS-320-13			US-PATENT-CLASS-356-167					
		US-PATENT-CLASS-320-15			US-PATENT-4,088,408			NASA-CASE-NPO-13937-1		
		US-PATENT-CLASS-320-32			NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN-718137		
		US-PATENT-CLASS-320-39			US-PATENT-APPL-SN-684807			US-PATENT-CLASS-201-17		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-29-81C			US-PATENT-CLASS-44-1R		
		US-PATENT-CLASS-320-9			US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-44-2		
		US-PATENT-4,084,124			US-PATENT-CLASS-315-111.2			US-PATENT-4,081,250		
		NASA-CASE-LAR-11919-1			US-PATENT-4,088,926			NASA-CASE-ARC-11058-1		
		US-PATENT-APPL-SN-672221			NASA-CASE-KSC-11035-1			US-PATENT-APPL-SN-753965		
		US-PATENT-CLASS-239-265.25			US-PATENT-APPL-SN-780874			US-PATENT-CLASS-2.2.1A		
		US-PATENT-CLASS-239-265.33			US-PATENT-CLASS-324-130			US-PATENT-CLASS-285-235		
		US-PATENT-CLASS-60-230			US-PATENT-CLASS-324-32			US-PATENT-4,091,464		
		US-PATENT-4,088,270			US-PATENT-CLASS-324-74			NASA-CASE-ARC-11100-1		
		NASA-CASE-MFS-23270-1			US-PATENT-APPL-SN-740155					
		US-PATENT-APPL-SN-744573			US-PATENT-CLASS-356-120					
		US-PATENT-CLASS-320-13			US-PATENT-CLASS-356-167					
		US-PATENT-CLASS-320-15			US-PATENT-4,088,408			NASA-CASE-NPO-13937-1		
		US-PATENT-CLASS-320-32			NASA-CASE-MFS-22906-1			US-PATENT-APPL-SN		

		US-PATENT-APPL-SN-780569	N78-32340*	c 33	NASA-CASE-GSC-12146-1	US-PATENT-CLASS-123-3		
		US-PATENT-CLASS-2-2.1A			US-PATENT-APPL-SN-782480	US-PATENT-4,112,875		
N78-32086*	c 05	US-PATENT-4,091,465			US-PATENT-CLASS-325-159	N78-33913*	c 74	NASA-CASE-NPO-10233-1
		NASA-CASE-LAR-11932-1			US-PATENT-CLASS-325-187	US-PATENT-APPL-SN-716885		US-PATENT-CLASS-250-218
		US-PATENT-APPL-SN-718244			US-PATENT-CLASS-333-17R	US-PATENT-CLASS-250-227		US-PATENT-CLASS-250-239
		US-PATENT-CLASS-244-218			US-PATENT-CLASS-333-81R	US-PATENT-CLASS-356-208		US-PATENT-3,573,470
		US-PATENT-CLASS-244-45A	N78-32341*	c 33	US-PATENT-4,092,617	N79-10057*	c 07	NASA-CASE-LEW-12232-1
		US-PATENT-CLASS-244-46			NASA-CASE-LEW-12791-1	US-PATENT-APPL-SN-776029		US-PATENT-CLASS-415-115
N78-32168* #	c 15	US-PATENT-4,093,156			US-PATENT-APPL-SN-801432	US-PATENT-CLASS-415-116		US-PATENT-CLASS-60-39.14
		NASA-CASE-LAR-12264-1			US-PATENT-CLASS-363-101	US-PATENT-4,117,669		NASA-CASE-ARC-11053-1
N78-32179*	c 20	US-PATENT-APPL-SN-943087			US-PATENT-CLASS-363-16	US-PATENT-APPL-SN-814378		US-PATENT-CLASS-23-252F
		NASA-CASE-NPO-11458A			US-PATENT-CLASS-363-60	US-PATENT-CLASS-423-581		US-PATENT-4,101,644
		US-PATENT-APPL-SN-48621	N78-32395*	c 35	US-PATENT-4,092,712	N79-10162*	c 25	NASA-CASE-NPO-13274-1
		US-PATENT-CLASS-102-103			NASA-CASE-ARC-11036-1	US-PATENT-APPL-SN-406296		US-PATENT-CLASS-204-180S
		US-PATENT-CLASS-149-19.4			US-PATENT-APPL-SN-740457	US-PATENT-CLASS-204-299		US-PATENT-3,932,262
		US-PATENT-CLASS-149-42			US-PATENT-CLASS-33-366	N79-10262*	c 32	NASA-CASE-NPO-13941-1
		US-PATENT-CLASS-149-43			US-PATENT-4,094,073	US-PATENT-APPL-SN-774384		US-PATENT-CLASS-307-233R
		US-PATENT-CLASS-149-44	N78-32396*	c 35	NASA-CASE-MFS-23363-1	US-PATENT-CLASS-324-77B		US-PATENT-CLASS-324-77C
		US-PATENT-CLASS-149-76			US-PATENT-APPL-SN-730046	US-PATENT-4,118,666		NASA-CASE-MSC-12743-1
		US-PATENT-CLASS-149-83			US-PATENT-CLASS-324-173	US-PATENT-APPL-SN-765167		US-PATENT-CLASS-325-41
		US-PATENT-CLASS-149-85			US-PATENT-CLASS-324-207	US-PATENT-CLASS-340-146.1A		US-PATENT-CLASS-340-146.1E
		US-PATENT-4,116,131			US-PATENT-4,093,917	US-PATENT-4,100,531		NASA-CASE-MFS-22234-1
N78-32229*	c 26	NASA-CASE-ARC-10992-1	N78-32397*	c 35	NASA-CASE-LAR-11617-2	N79-10264*	c 32	NASA-CASE-MFS-22234-1
		US-PATENT-APPL-SN-760810			US-PATENT-APPL-SN-547072	US-PATENT-APPL-SN-730778		US-PATENT-CLASS-343-6R
		US-PATENT-CLASS-204-164			US-PATENT-APPL-SN-668771	US-PATENT-CLASS-343-9		US-PATENT-4,118,701
		US-PATENT-CLASS-204-175			US-PATENT-CLASS-324-249	N79-10337*	c 33	NASA-CASE-KSC-11018-1
		US-PATENT-CLASS-423-582			US-PATENT-4,088,954	US-PATENT-APPL-SN-782693		US-PATENT-CLASS-324-133
		US-PATENT-CLASS-423-583	N78-32447*	c 38	NASA-CASE-MFS-23114-1	US-PATENT-CLASS-324-72		US-PATENT-CLASS-324-96
		US-PATENT-4,094,758			US-PATENT-APPL-SN-686331	US-PATENT-4,100,487		NASA-CASE-GSC-12228-1
N78-32256*	c 27	NASA-CASE-MSC-14903-1			US-PATENT-CLASS-350-3.5	US-PATENT-APPL-SN-858764		US-PATENT-CLASS-324-57R
		US-PATENT-APPL-SN-706424			US-PATENT-CLASS-356-72	US-PATENT-CLASS-324-83D		US-PATENT-CLASS-324-85
		US-PATENT-CLASS-260-2P			US-PATENT-CLASS-356-73	US-PATENT-CLASS-328-163		US-PATENT-4,118,665
		US-PATENT-CLASS-260-551P			US-PATENT-CLASS-73-603	N79-10339*	c 33	NASA-CASE-LEW-12013-1
		US-PATENT-CLASS-260-606-5P			US-PATENT-4,093,382	US-PATENT-APPL-SN-768795		US-PATENT-CLASS-301-82
		US-PATENT-CLASS-260-959	N78-32539*	c 44	NASA-CASE-LAR-11208-1	US-PATENT-CLASS-315-3.5		US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-526-13			US-PATENT-APPL-SN-710036	US-PATENT-CLASS-330-43		US-PATENT-4,118,671
		US-PATENT-CLASS-526-23			US-PATENT-CLASS-417-88	N79-10389*	c 35	NASA-CASE-MFS-23461-1
		US-PATENT-CLASS-526-27			US-PATENT-CLASS-60-39.07	US-PATENT-APPL-SN-694406		US-PATENT-CLASS-250-475
		US-PATENT-CLASS-526-275			US-PATENT-CLASS-60-39.14	US-PATENT-CLASS-252-301.1R		US-PATENT-CLASS-252-301.16
		US-PATENT-CLASS-526-276			US-PATENT-CLASS-60-39.33	US-PATENT-CLASS-96-27R		US-PATENT-CLASS-96-60R
		US-PATENT-CLASS-526-278			US-PATENT-CLASS-98-1.5	US-PATENT-4,101,780		NASA-CASE-LAR-12260-1
		US-PATENT-CLASS-526-49			US-PATENT-4,091,613	US-PATENT-CLASS-73-579		US-PATENT-CLASS-73-589
		US-PATENT-CLASS-526-50	N78-32542*	c 44	NASA-CASE-KSC-11034-1	US-PATENT-4,117,731		NASA-CASE-NPO-13862-1
		US-PATENT-CLASS-544-195			US-PATENT-APPL-SN-782481	US-PATENT-APPL-SN-744577		US-PATENT-CLASS-324-77K
		US-PATENT-4,092,466			US-PATENT-CLASS-60-641	US-PATENT-CLASS-343-17.2PC		US-PATENT-CLASS-343-5CM
N78-32260*	c 27	US-PATENT-4,092,466			US-PATENT-CLASS-60-671	US-PATENT-CLASS-343-5W		US-PATENT-4,101,891
		NASA-CASE-ARC-11051-1			US-PATENT-4,087,975	N79-10418*	c 37	NASA-CASE-LEW-12569-1
		US-PATENT-APPL-SN-736910			US-PATENT-CLASS-60-975	US-PATENT-APPL-SN-792069		US-PATENT-CLASS-308-DIG.1
		US-PATENT-CLASS-106-48	N78-32720*	c 54	NASA-CASE-MSC-14805-1	US-PATENT-CLASS-308-121		US-PATENT-CLASS-308-160
		US-PATENT-CLASS-106-54			US-PATENT-APPL-SN-688856	US-PATENT-CLASS-308-163		US-PATENT-CLASS-308-172
		US-PATENT-CLASS-427-215			US-PATENT-CLASS-340-213R	US-PATENT-CLASS-308-5R		US-PATENT-CLASS-308-9
		US-PATENT-CLASS-427-376A			US-PATENT-CLASS-340-262	N79-10419*	c 37	NASA-CASE-FRC-10111-1
		US-PATENT-CLASS-427-376B			US-PATENT-CLASS-340-279	US-PATENT-APPL-SN-713027		US-PATENT-CLASS-30-90.6
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-340-285	US-PATENT-CLASS-81-9.5R		US-PATENT-4,117,749
		US-PATENT-CLASS-427-380			US-PATENT-CLASS-340-309.1			
		US-PATENT-CLASS-428-312			US-PATENT-4,092,633			
		US-PATENT-CLASS-428-325	N78-32721*	c 54	NASA-CASE-ARC-11059-1			
		US-PATENT-CLASS-428-331			US-PATENT-APPL-SN-753978			
		US-PATENT-CLASS-428-341			US-PATENT-CLASS-128-142.7			
		US-PATENT-CLASS-428-406			US-PATENT-CLASS-62-259			
		US-PATENT-CLASS-428-427			US-PATENT-4,095,593			
		US-PATENT-CLASS-428-428	N78-32848*	c 73	NASA-CASE-GSC-12083-1			
		US-PATENT-CLASS-428-446			US-PATENT-APPL-SN-643897			
		US-PATENT-CLASS-428-920			US-PATENT-CLASS-350-170			
		US-PATENT-CLASS-65-30R			US-PATENT-CLASS-350-173			
		US-PATENT-CLASS-65-60D			US-PATENT-CLASS-350-174			
		US-PATENT-4,093,771			US-PATENT-CLASS-350-286			
N78-32261*	c 27	US-PATENT-4,093,771			US-PATENT-CLASS-350-320			
		NASA-CASE-LAR-11828-1			US-PATENT-4,093,354			
		US-PATENT-APPL-SN-448321	N78-32854*	c 74	NASA-CASE-ARC-11039-1			
		US-PATENT-APPL-SN-562992			US-PATENT-APPL-SN-750655			
		US-PATENT-CLASS-260-47CP			US-PATENT-CLASS-351-166			
		US-PATENT-CLASS-260-49			US-PATENT-CLASS-427-164			
		US-PATENT-CLASS-260-63N			US-PATENT-CLASS-427-302			
		US-PATENT-CLASS-260-63R			US-PATENT-CLASS-427-322			
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-427-387			
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-427-41			
		US-PATENT-4,094,862			US-PATENT-CLASS-427-44			
N78-32262*	c 27	US-PATENT-4,094,862			US-PATENT-CLASS-428-412			
		NASA-CASE-MSC-14331-3			US-PATENT-CLASS-428-447			
		US-PATENT-APPL-SN-657998			US-PATENT-4,096,315			
		US-PATENT-CLASS-264-130	N78-33101*	c 07	NASA-CASE-LEW-12496-1			
		US-PATENT-CLASS-264-184			US-PATENT-APPL-SN-668971			
		US-PATENT-CLASS-264-211			US-PATENT-CLASS-29-463			
		US-PATENT-CLASS-264-236			US-PATENT-CLASS-416-214A			
		US-PATENT-4,094,943			US-PATENT-CLASS-416-244A			
N78-32338*	c 33	US-PATENT-4,094,943			US-PATENT-CLASS-74-572			
		NASA-CASE-GSC-12137-1			US-PATENT-4,097,194			
		US-PATENT-APPL-SN-808510	N78-33228*	c 27	NASA-CASE-NPO-08835-1			
		US-PATENT-CLASS-329-124			US-PATENT-APPL-SN-588721			
		US-PATENT-CLASS-331-12			US-PATENT-CLASS-260-28.5			
		US-PATENT-CLASS-331-4			US-PATENT-3,527,724			
		US-PATENT-CLASS-331-64			NASA-CASE-NPO-13763-1			
		US-PATENT-4,092,606			US-PATENT-APPL-SN-718268			
N78-32339*	c 33	US-PATENT-4,092,606			US-PATENT-CLASS-123-DIG.12			
		NASA-CASE-GSC-12145-1			US-PATENT-CLASS-123-1A			
		US-PATENT-APPL-SN-769149						
		US-PATENT-CLASS-307-229	N78-33526*	c 44	NASA-CASE-NPO-13763-1			
		US-PATENT-CLASS-307-230			US-PATENT-APPL-SN-718268			
		US-PATENT-CLASS-328-145			US-PATENT-CLASS-123-DIG.12			
		US-PATENT-4,091,329			US-PATENT-CLASS-123-1A			

N79-10420*	c 37	NASA-CASE-NPO-14014-1 US-PATENT-APPL-SN-826204 US-PATENT-CLASS-188-1C US-PATENT-CLASS-256-1 US-PATENT-CLASS-256-13.1 US-PATENT-4,118,014	US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-67 US-PATENT-CLASS-343-17.7 US-PATENT-4,119,964	US-PATENT-CLASS-427-84 US-PATENT-4,122,214
N79-10421*	c 37	NASA-CASE-MFS-23620-1 US-PATENT-APPL-SN-799023 US-PATENT-CLASS-219-124.2.2 US-PATENT-CLASS-219-124.32 US-PATENT-CLASS-219-125.1 US-PATENT-CLASS-228-8 US-PATENT-4,118,620	N79-11313* c 33 NASA-CASE-MSC-16461-1 US-PATENT-APPL-SN-858765 US-PATENT-CLASS-307-232 US-PATENT-CLASS-328-133 US-PATENT-CLASS-331-1A US-PATENT-CLASS-331-14 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-27 US-PATENT-4,119,926	N79-11865* c 74 NASA-CASE-MFS-23513-1 US-PATENT-APPL-SN-755323 US-PATENT-CLASS-356-124 US-PATENT-CLASS-356-210 US-PATENT-4,102,580
N79-10422*	c 37	NASA-CASE-MFS-23051-1 US-PATENT-APPL-SN-632111 US-PATENT-CLASS-15-230.16 US-PATENT-CLASS-15-230.17 US-PATENT-CLASS-29-125 US-PATENT-CLASS-428-133 US-PATENT-CLASS-74-572 US-PATENT-4,098,142	N79-11314* c 33 NASA-CASE-NPO-13064-1 US-PATENT-APPL-SN-297436 US-PATENT-CLASS-357-22 US-PATENT-3,860,946	N79-11920* c 76 NASA-CASE-NPO-13918-1 US-PATENT-APPL-SN-706073 US-PATENT-CLASS-156-DIG.64 US-PATENT-CLASS-156-DIG.65 US-PATENT-CLASS-156-DIG.88 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-6175P US-PATENT-4,121,965
N79-10513*	c 44	NASA-CASE-NPO-13732-1 US-PATENT-APPL-SN-765138 US-PATENT-CLASS-429-13 US-PATENT-CLASS-429-41 US-PATENT-CLASS-429-42 US-PATENT-4,100,331	N79-11315* c 33 NASA-CASE-KSC-11031-1 US-PATENT-APPL-SN-782482 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113 US-PATENT-CLASS-324-133 US-PATENT-4,105,966	N79-12061* c 05 NASA-CASE-FRC-10092-1 US-PATENT-APPL-SN-831634 US-PATENT-CLASS-244-48 US-PATENT-CLASS-244-82 US-PATENT-CLASS-244-90R US-PATENT-4,124,180
N79-10693*	c 51	NASA-CASE-MSC-16098-1 US-PATENT-APPL-SN-792068 US-PATENT-CLASS-210-23F US-PATENT-CLASS-210-433M US-PATENT-CLASS-210-96M US-PATENT-4,118,315	N79-11402* c 37 NASA-CASE-MSC-16043-1 US-PATENT-APPL-SN-750792 US-PATENT-CLASS-137-614.06 US-PATENT-CLASS-137-637.05 US-PATENT-CLASS-251-149.9 US-PATENT-CLASS-285-326 US-PATENT-CLASS-285-359 US-PATENT-4,103,712	N79-12221* c 27 NASA-CASE-MSC-12619-2 US-PATENT-APPL-SN-555750 US-PATENT-APPL-SN-786913 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158 US-PATENT-CLASS-244-160 US-PATENT-CLASS-428-189 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-280 US-PATENT-CLASS-428-285 US-PATENT-CLASS-428-286 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-77 US-PATENT-CLASS-428-920 US-PATENT-4,124,732
N79-10694*	c 51	NASA-CASE-GSC-12173-1 US-PATENT-APPL-SN-806440 US-PATENT-CLASS-165-2 US-PATENT-CLASS-165-30 US-PATENT-CLASS-195-1.8 US-PATENT-CLASS-219-299 US-PATENT-CLASS-219-302 US-PATENT-CLASS-62-514R US-PATENT-CLASS-62-78 US-PATENT-4,117,881	N79-11403* c 37 NASA-CASE-LEW-12793-1 US-PATENT-APPL-SN-745766 US-PATENT-CLASS-60.39.08 US-PATENT-CLASS-60-39.28R US-PATENT-CLASS-60-39.66 US-PATENT-4,104,873	N79-12321* c 33 NASA-CASE-GSC-12190-1 US-PATENT-APPL-SN-817413 US-PATENT-CLASS-357-22 US-PATENT-CLASS-357-23 US-PATENT-CLASS-357-41 US-PATENT-CLASS-357-45 US-PATENT-CLASS-357-55 US-PATENT-4,119,996
N79-10724*	c 52	NASA-CASE-ARC-10985-1 US-PATENT-APPL-SN-769148 US-PATENT-CLASS-128-2.05R US-PATENT-CLASS-358-111 US-PATENT-CLASS-358-96 US-PATENT-CLASS-364-417 US-PATENT-4,101,961	N79-11404* c 37 NASA-CASE-MFS-23447-1 US-PATENT-APPL-SN-736909 US-PATENT-CLASS-308-194 US-PATENT-CLASS-308-72 US-PATENT-4,105,261	N79-12331* c 33 NASA-CASE-MSC-12662-1 US-PATENT-APPL-SN-540779 US-PATENT-CLASS-428-109 US-PATENT-CLASS-428-247 US-PATENT-CLASS-428-258 US-PATENT-CLASS-428-259 US-PATENT-4,107,363
N79-10969*	c 89	NASA-CASE-MFS-23675-1 US-PATENT-APPL-SN-820498 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-55 US-PATENT-4,101,195	N79-11405* c 37 NASA-CASE-NPO-13828-1 US-PATENT-APPL-SN-672636 US-PATENT-CLASS-123-148C US-PATENT-CLASS-123-148E US-PATENT-CLASS-315-209CD US-PATENT-CLASS-315-209SC US-PATENT-CLASS-315-241R US-PATENT-4,122,816	N79-12359* c 34 NASA-CASE-LAR-11729-1 US-PATENT-APPL-SN-856461 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194VS US-PATENT-4,122,712
N79-11108*	c 18	NASA-CASE-MFS-23579-1 US-PATENT-APPL-SN-829316 US-PATENT-CLASS-228-13 US-PATENT-CLASS-228-15.1 US-PATENT-CLASS-228-173 US-PATENT-CLASS-244-159 US-PATENT-4,122,991	N79-11467* c 44 NASA-CASE-LEW-12619-1 US-PATENT-APPL-SN-803823 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89SJ US-PATENT-CLASS-357-15 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-65 US-PATENT-CLASS-357-67 US-PATENT-4,104,084	N79-12541* c 44 NASA-CASE-NPO-14100-1 US-PATENT-APPL-SN-861391 US-PATENT-CLASS-324-20R US-PATENT-CLASS-324-22 US-PATENT-4,122,383
N79-11151*	c 25	NASA-CASE-NPO-13958-1 US-PATENT-APPL-SN-745384 US-PATENT-CLASS-126-91A US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-208 US-PATENT-CLASS-432-223 US-PATENT-CLASS-432-29 US-PATENT-4,104,018	N79-11468* c 44 NASA-CASE-LEW-12775-1 US-PATENT-APPL-SN-799026 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-188 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-75 US-PATENT-4,104,091	N79-12584* c 45 NASA-CASE-MSC-16258-1 US-PATENT-APPL-SN-853705 US-PATENT-CLASS-210-50 US-PATENT-CLASS-210-60 US-PATENT-CLASS-210-63R US-PATENT-CLASS-423-242 US-PATENT-CLASS-55-73 US-PATENT-4,123,355
N79-11152*	c 25	NASA-CASE-NPO-13904-1 US-PATENT-APPL-SN-730468 US-PATENT-CLASS-208-10 US-PATENT-CLASS-208-8 US-PATENT-CLASS-302-66 US-PATENT-CLASS-44-51 US-PATENT-4,121,995	N79-11469* c 44 NASA-CASE-MFS-23518-1 US-PATENT-APPL-SN-829390 US-PATENT-CLASS-204-32 US-PATENT-CLASS-204-33 US-PATENT-CLASS-204-37R US-PATENT-CLASS-204-38B US-PATENT-4,104,134	N79-12694* c 52 NASA-CASE-NPO-13913-1 US-PATENT-APPL-SN-687251 US-PATENT-CLASS-128-2R US-PATENT-CLASS-364-120 US-PATENT-CLASS-364-300 US-PATENT-CLASS-364-415 US-PATENT-CLASS-364-900 US-PATENT-4,122,518
N79-11215* #	c 27	NASA-CASE-ARC-11170-1 US-PATENT-APPL-SN-956161	N79-11470* c 44 NASA-CASE-NPO-14126-1 US-PATENT-APPL-SN-838336 US-PATENT-CLASS-204-157.1R US-PATENT-CLASS-250-527 US-PATENT-4,105,517	N79-12890* c 74 NASA-CASE-KSC-11010-1 US-PATENT-APPL-SN-753977 US-PATENT-CLASS-200-46 US-PATENT-CLASS-200-61 US-PATENT-CLASS-250-214AL US-PATENT-CLASS-250-214R US-PATENT-CLASS-315-153 US-PATENT-4,122,334
N79-11231*	c 28	NASA-CASE-NPO-13858-1 NASA-CASE-NPO-13859-1 US-PATENT-APPL-SN-740153 US-PATENT-CLASS-102-28R US-PATENT-4,103,619	N79-11471* c 44 NASA-CASE-NPO-13817-1 US-PATENT-APPL-SN-801452 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,122,833	N79-13214* c 32 NASA-CASE-NPO-14009-1 US-PATENT-APPL-SN-818917 US-PATENT-CLASS-343-117R US-PATENT-CLASS-343-118 US-PATENT-CLASS-343-7.4 US-PATENT-4,122,454
N79-11246*	c 31	NASA-CASE-LAR-12147-1 US-PATENT-APPL-SN-733825 US-PATENT-CLASS-73-159 US-PATENT-CLASS-73-95 US-PATENT-4,103,550	N79-11472* c 44 NASA-CASE-LEW-12552-2 US-PATENT-APPL-SN-844346 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-123 US-PATENT-CLASS-427-126 US-PATENT-CLASS-427-261 US-PATENT-CLASS-427-343 US-PATENT-CLASS-427-398A US-PATENT-CLASS-427-399 US-PATENT-CLASS-427-75	N79-13288* c 34 NASA-CASE-LEW-12252-1 US-PATENT-APPL-SN-559847 US-PATENT-CLASS-165-169
N79-11264*	c 32	NASA-CASE-MSC-14939-1 US-PATENT-APPL-SN-765165 US-PATENT-CLASS-343-844 US-PATENT-CLASS-343-854 US-PATENT-4,119,972		
N79-11265*	c 32	NASA-CASE-GSC-12150-1 US-PATENT-APPL-SN-736286		

		US-PATENT-CLASS-239-127.1				US-PATENT-CLASS-329-122				US-PATENT-CLASS-126-271																			
		US-PATENT-CLASS-60-267				US-PATENT-CLASS-343-14				US-PATENT-CLASS-350-292																			
		US-PATENT-4,107,919				US-PATENT-CLASS-364-458				US-PATENT-CLASS-350-293																			
N79-13289*	c 34	NASA-CASE-LEW-12441-1				US-PATENT-CLASS-364-604				US-PATENT-CLASS-350-320																			
		US-PATENT-APPL-SN-559846				US-PATENT-CLASS-364-728		N79-14749*	c 52	NASA-CASE-NPO-13930-1																			
		US-PATENT-CLASS-165-146				US-PATENT-4,112,497				US-PATENT-APPL-SN-700467																			
		US-PATENT-CLASS-165-169				NASA-CASE-NPO-14019-1				US-PATENT-CLASS-128-214D																			
		US-PATENT-CLASS-239-127.1	N79-14268*	c 32	US-PATENT-APPL-SN-843308	US-PATENT-CLASS-343-100CL				US-PATENT-CLASS-128-272																			
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-343-5CM	US-PATENT-4,132,989				US-PATENT-CLASS-150-1																			
		US-PATENT-4,108,241			US-PATENT-4,132,989	NASA-CASE-KSC-11057-1				US-PATENT-CLASS-195-1.8																			
N79-13364*	c 37	NASA-CASE-LAR-10941-2	N79-14305*	c 33	US-PATENT-APPL-SN-835544	US-PATENT-CLASS-324-102				US-PATENT-CLASS-206-439																			
		US-PATENT-APPL-SN-395493			US-PATENT-CLASS-324-112	US-PATENT-CLASS-324-113				US-PATENT-CLASS-210-DIG.23																			
		US-PATENT-CLASS-228-107			US-PATENT-CLASS-324-133	US-PATENT-CLASS-324-172				US-PATENT-CLASS-422-41																			
		US-PATENT-CLASS-228-2.5			US-PATENT-CLASS-324-133	US-PATENT-CLASS-324-133				US-PATENT-CLASS-422-48																			
		US-PATENT-CLASS-29-421E			US-PATENT-4,112,357	NASA-CASE-LEW-12661-1				US-PATENT-CLASS-55-15-8																			
		US-PATENT-4,106,687	N79-14345*	c 35	US-PATENT-APPL-SN-837796	US-PATENT-CLASS-73-115				US-PATENT-4,132,594																			
N79-13826*	c 72	NASA-CASE-NPO-13993-1			US-PATENT-CLASS-73-115	US-PATENT-4,111,041				N79-14750*	c 52	NASA-CASE-GSC-12046-1																	
		US-PATENT-APPL-SN-782463			US-PATENT-CLASS-73-115	US-PATENT-4,111,041						US-PATENT-APPL-SN-680015																	
		US-PATENT-CLASS-331-94.5L			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-CLASS-195-103.5K																	
		US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-CLASS-195-103.5L																	
		US-PATENT-CLASS-331-94.5PE			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-4,132,599																	
		US-PATENT-4,107,627	N79-13855*	c 74	NASA-CASE-MFS-23052-2	US-PATENT-CLASS-73-115						NASA-CASE-NPO-13935-1																	
		US-PATENT-APPL-SN-590183			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						NASA-CASE-NPO-13944-1																	
		US-PATENT-APPL-SN-772165			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-APPL-SN-741749																	
		US-PATENT-CLASS-35-12C			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-CLASS-128-2V																	
		US-PATENT-CLASS-35-12N			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-CLASS-73-633																	
		US-PATENT-CLASS-358-104			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-CLASS-73-644																	
		US-PATENT-4,106,218			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						US-PATENT-4,130,112																	
N79-14095*	c 07	NASA-CASE-LEW-13050-1			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115						N79-14871*	c 71	NASA-CASE-LEW-12658-1															
		US-PATENT-APPL-SN-513346			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115								US-PATENT-APPL-SN-702115															
		US-PATENT-CLASS-416-157B			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115								US-PATENT-CLASS-181-190															
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115								US-PATENT-CLASS-181-213															
		US-PATENT-CLASS-416-162			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115								US-PATENT-CLASS-181-222															
		US-PATENT-CLASS-416-167			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115								US-PATENT-CLASS-181-293															
		US-PATENT-4,124,330			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115								US-PATENT-4,106,587															
N79-14096*	c 07	NASA-CASE-LEW-12389-3			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115								N79-14891*	c 74	NASA-CASE-GSC-12225-1													
		US-PATENT-APPL-SN-552108			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115										US-PATENT-APPL-SN-823566													
		US-PATENT-APPL-SN-753452			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115										US-PATENT-CLASS-350-157													
		US-PATENT-CLASS-137-15.1			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115										US-PATENT-4,129,357													
		US-PATENT-CLASS-244-54			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115										N79-14906*	c 76	NASA-CASE-MFS-23541-1											
		US-PATENT-CLASS-415-200			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115												US-PATENT-APPL-SN-814005											
		US-PATENT-CLASS-415-201			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115												US-PATENT-CLASS-204-192C											
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115												US-PATENT-4,111,775											
		US-PATENT-CLASS-60-226R			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115												N79-15245*	c 33	NASA-CASE-ARC-10975-1									
		US-PATENT-CLASS-60-39.31			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115														US-PATENT-APPL-SN-799832									
		US-PATENT-4,132,069			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115														US-PATENT-CLASS-181-213									
N79-14097*	c 07	NASA-CASE-LEW-12378-1			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115														US-PATENT-CLASS-181-222									
		US-PATENT-APPL-SN-573029			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115														US-PATENT-CLASS-181-293									
		US-PATENT-CLASS-239-265.39			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115														US-PATENT-4,106,587									
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115														N79-14891*	c 74	NASA-CASE-GSC-12225-1							
		US-PATENT-4,132,068			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																	US-PATENT-APPL-SN-823566						
N79-14108*	c 08	NASA-CASE-LAR-11868-2			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																	US-PATENT-CLASS-350-157						
		US-PATENT-APPL-SN-651002			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																	US-PATENT-4,129,357						
		US-PATENT-APPL-SN-779429			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																	N79-14906*	c 76	NASA-CASE-MFS-23541-1				
		US-PATENT-CLASS-244-218			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																			US-PATENT-APPL-SN-814005				
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																			US-PATENT-CLASS-204-192C				
		US-PATENT-CLASS-244-90R			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																			US-PATENT-4,111,775				
		US-PATENT-4,132,375			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																			N79-15245*	c 33	NASA-CASE-ARC-10975-1		
N79-14156*	c 24	NASA-CASE-GSC-12207-1			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-APPL-SN-799832		
		US-PATENT-APPL-SN-844344			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-181-213		
		US-PATENT-CLASS-106-296			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-181-222		
		US-PATENT-CLASS-106-84			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-181-293		
		US-PATENT-CLASS-252-518			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-4,106,587		
		US-PATENT-4,111,851			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					N79-14891*	c 74	NASA-CASE-GSC-12225-1
N79-14169*	c 25	NASA-CASE-ARC-11121-1			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																						US-PATENT-APPL-SN-823566	
		US-PATENT-APPL-SN-850507			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-350-157		
		US-PATENT-CLASS-204-180G			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-4,129,357		
		US-PATENT-CLASS-204-180S			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					N79-14906*	c 76	NASA-CASE-MFS-23541-1
		US-PATENT-CLASS-204-299R			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																						US-PATENT-APPL-SN-814005	
		US-PATENT-CLASS-23-230B			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-204-192C		
		US-PATENT-CLASS-424-12			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-4,111,775		
		US-PATENT-4,130,471			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					N79-15245*	c 33	NASA-CASE-ARC-10975-1
N79-14213*	c 27	NASA-CASE-NPO-13690-2			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																						US-PATENT-APPL-SN-799832	
		US-PATENT-APPL-SN-858766			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-181-213		
		US-PATENT-CLASS-264-60			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-181-222		
		US-PATENT-CLASS-75-203			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-181-293		
		US-PATENT-CLASS-75-205			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-4,106,587		
		US-PATENT-CLASS-75-206			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					N79-14891*	c 74	NASA-CASE-GSC-12225-1
		US-PATENT-CLASS-75-212			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																						US-PATENT-APPL-SN-823566	
		US-PATENT-CLASS-75-226			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-CLASS-350-157		
		US-PATENT-4,131,459			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					US-PATENT-4,129,357		
N79-14214*	c 27	NASA-CASE-ARC-10892-2			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																					N79-14906*	c 76	NASA-CASE-MFS-23541-1
		US-PATENT-APPL-SN-589172			US-PATENT-CLASS-73-115	US-PATENT-CLASS-73-115																						US-PATENT-APPL-SN-814005	
		US-PATENT-APPL																											

		US-PATENT-CLASS-55-155	US-PATENT-APPL-SN-824024	N79-20857*	c 74	NASA-CASE-GSC-12263-1
		US-PATENT-CLASS-55-241	US-PATENT-CLASS-126-271			US-PATENT-APPL-SN-817415
		US-PATENT-CLASS-55-242	US-PATENT-CLASS-165-105			US-PATENT-CLASS-250-363R
		US-PATENT-CLASS-55-360	US-PATENT-CLASS-60-508			US-PATENT-CLASS-250-483
		US-PATENT-CLASS-55-407	US-PATENT-CLASS-60-572			US-PATENT-4,142,101
		US-PATENT-4,134,744	US-PATENT-CLASS-60-641	N79-21083*	c 09	NASA-CASE-LAR-10135-1
N79-17288*	c 43	NASA-CASE-NPO-13691-1	US-PATENT-4,135,367			US-PATENT-APPL-SN-648034
		US-PATENT-APPL-SN-664091	N79-18444*	c 44	NASA-CASE-LEW-12819-2	US-PATENT-CLASS-73-147
		US-PATENT-CLASS-250-226	US-PATENT-APPL-SN-863770			US-PATENT-3,453,878
		US-PATENT-CLASS-356-300	US-PATENT-CLASS-148-6.3	N79-21084*	c 09	NASA-CASE-XLE-03186-1
		US-PATENT-CLASS-356-407	US-PATENT-CLASS-29-572			US-PATENT-APPL-SN-200770
		US-PATENT-CLASS-356-416	US-PATENT-CLASS-29-578			US-PATENT-CLASS-89-8
		US-PATENT-4,134,683	US-PATENT-CLASS-29-591			US-PATENT-3,224,337
N79-17313*	c 44	NASA-CASE-LEW-12358-1	US-PATENT-4,135,290	N79-21123*	c 20	NASA-CASE-XMF-06884-1
		US-PATENT-APPL-SN-776146	N79-18580*	c 52	NASA-CASE-ARC-11035-1	US-PATENT-APPL-SN-579300
		US-PATENT-CLASS-429-101	US-PATENT-APPL-SN-758721			US-PATENT-CLASS-164-105
		US-PATENT-CLASS-429-33	US-PATENT-CLASS-128-2.052			US-PATENT-3,485,290
		US-PATENT-4,133,941	US-PATENT-CLASS-128-2.1A	N79-21124*	c 20	NASA-CASE-XMF-05964-1
N79-17314*	c 44	NASA-CASE-NPO-13652-1	US-PATENT-CLASS-128-2V			US-PATENT-APPL-SN-578397
		US-PATENT-APPL-SN-809890	US-PATENT-4,109,644			US-PATENT-CLASS-60-243
		US-PATENT-CLASS-136-89CC	N79-19186*	c 32	NASA-CASE-WOO-00428-1	US-PATENT-3,390,528
		US-PATENT-CLASS-136-89P	US-PATENT-APPL-SN-112999			NASA-CASE-XMF-04592-1
		US-PATENT-CLASS-29-572	US-PATENT-CLASS-117-35	N79-21125*	c 20	NASA-CASE-XMF-04593-1
		US-PATENT-4,133,697	US-PATENT-3,173,801			US-PATENT-APPL-SN-579376
N79-17747*	c 85	NASA-CASE-NPO-13847-2	N79-19195* #	c 32	NASA-CASE-NPO-14525-1	US-PATENT-CLASS-60-39.74
		NASA-CASE-NPO-13848-2	US-PATENT-APPL-SN-017885			US-PATENT-3,397,537
		US-PATENT-APPL-SN-750798	N79-19447*	c 44	NASA-CASE-XGS-00829-1	NASA-CASE-XMF-02526-1
		US-PATENT-CLASS-162-14	US-PATENT-APPL-SN-286824			NASA-CASE-XMF-02527-1
		US-PATENT-CLASS-162-29	US-PATENT-CLASS-269-153			NASA-CASE-XMF-02783-1
		US-PATENT-CLASS-210-28	US-PATENT-3,262,694			US-PATENT-APPL-SN-483817
		US-PATENT-CLASS-210-40	N79-20179*	c 20	NASA-CASE-LEW-12780-1	US-PATENT-CLASS-260-2
		US-PATENT-CLASS-210-45	US-PATENT-APPL-SN-891370			US-PATENT-3,311,571
		US-PATENT-CLASS-210-54	US-PATENT-CLASS-323-15	N79-21191*	c 27	NASA-CASE-XMF-06900-1
		US-PATENT-CLASS-210-66	US-PATENT-CLASS-323-20			US-PATENT-APPL-SN-554959
		US-PATENT-CLASS-210-67	US-PATENT-4,143,314			US-PATENT-CLASS-260-67
		US-PATENT-CLASS-210-70	N79-20296*	c 32	NASA-CASE-GSC-12148-1	US-PATENT-3,419,531
		US-PATENT-CLASS-210-73R	US-PATENT-APPL-SN-786322			NASA-CASE-XLE-02367-1
		US-PATENT-4,134,786	US-PATENT-CLASS-325-58			US-PATENT-APPL-SN-400857
N79-17847*	c 05	NASA-CASE-ARC-11045-1	US-PATENT-CLASS-325-63			US-PATENT-CLASS-222-131
		US-PATENT-APPL-SN-818916	US-PATENT-CLASS-343-179			US-PATENT-3,215,313
		US-PATENT-CLASS-416-132R	US-PATENT-4,140,972	N79-21226*	c 31	NASA-CASE-MFS-10946-1
		US-PATENT-CLASS-416-138	N79-20297*	c 32	NASA-CASE-MS-16253-1	US-PATENT-APPL-SN-581843
		US-PATENT-CLASS-416-51	US-PATENT-APPL-SN-831631			US-PATENT-CLASS-156-52
		US-PATENT-CLASS-416-88	US-PATENT-CLASS-358-109			US-PATENT-3,481,802
		US-PATENT-CLASS-416-89	US-PATENT-CLASS-358-81	N79-21227*	c 31	NASA-CASE-XMF-05757-1
		US-PATENT-4,137,010	US-PATENT-CLASS-364-713			US-PATENT-APPL-SN-562558
N79-17916*	c 24	NASA-CASE-LEW-11930-4	US-PATENT-4,139,862			US-PATENT-CLASS-117-43
		US-PATENT-APPL-SN-860406	N79-20314*	c 33	NASA-CASE-GSC-12138-1	US-PATENT-3,511,680
		US-PATENT-CLASS-252-12.2	US-PATENT-APPL-SN-779871			NASA-CASE-XMF-05373-1
		US-PATENT-CLASS-308-DIG.8	US-PATENT-CLASS-310-231			US-PATENT-APPL-SN-474815
		US-PATENT-CLASS-308-DIG.9	US-PATENT-CLASS-310-46			US-PATENT-CLASS-335-216
		US-PATENT-CLASS-308-168	US-PATENT-CLASS-310-82			US-PATENT-3,310,765
		US-PATENT-CLASS-308-171	US-PATENT-4,142,119	N79-21265*	c 33	NASA-CASE-XNP-02899-1
		US-PATENT-CLASS-308-78	N79-20335*	c 34	NASA-CASE-NPO-14130-1	US-PATENT-APPL-SN-472643
		US-PATENT-CLASS-308-87R	US-PATENT-APPL-SN-847278			US-PATENT-CLASS-317-245
		US-PATENT-CLASS-427-292	US-PATENT-CLASS-415-143			US-PATENT-3,356,917
		US-PATENT-CLASS-427-327	US-PATENT-CLASS-60-645	N79-21345*	c 37	NASA-CASE-XMS-01295-1
		US-PATENT-CLASS-427-328	US-PATENT-CLASS-60-649			US-PATENT-APPL-SN-77869
		US-PATENT-CLASS-427-34	US-PATENT-4,141,219			US-PATENT-CLASS-55-159
		US-PATENT-CLASS-427-355	N79-20336*	c 34	NASA-CASE-LEW-11981-2	US-PATENT-3,131,040
		US-PATENT-CLASS-427-376B	US-PATENT-APPL-SN-829315			NASA-CASE-MS-12239-1
		US-PATENT-CLASS-427-376C	US-PATENT-CLASS-250-352			US-PATENT-APPL-SN-292340
		US-PATENT-4,136,211	US-PATENT-CLASS-313-22			US-PATENT-CLASS-128.2.07
N79-18052*	c 27	NASA-CASE-ARC-10915-2	US-PATENT-CLASS-313-35			US-PATENT-3,396,719
		US-PATENT-APPL-SN-634304	US-PATENT-CLASS-62-268	N79-21910*	c 76	NASA-CASE-XLE-02545-1
		US-PATENT-APPL-SN-779883	US-PATENT-CLASS-62-376			US-PATENT-APPL-SN-430748
		US-PATENT-CLASS-427-40	US-PATENT-CLASS-62-514R			US-PATENT-CLASS-156-17
		US-PATENT-CLASS-427-41	US-PATENT-4,141,224			US-PATENT-3,429,756
		US-PATENT-CLASS-428-412	N79-20377*	c 37	NASA-CASE-MS-19514-1	NASA-CASE-LEW-12513-1
		US-PATENT-CLASS-428-447	US-PATENT-APPL-SN-772168			US-PATENT-APPL-SN-772167
		US-PATENT-CLASS-428-451	US-PATENT-CLASS-74-674			US-PATENT-CLASS-195-103.5R
		US-PATENT-4,137,365	US-PATENT-CLASS-74-705			US-PATENT-CLASS-195-127
N79-18193*	c 33	NASA-CASE-KSC-10899-1	US-PATENT-CLASS-74-764			US-PATENT-CLASS-204-1T
		US-PATENT-APPL-SN-814004	US-PATENT-4,141,259			US-PATENT-CLASS-2041-195B
		US-PATENT-CLASS-324-127	N79-20751*	c 60	NASA-CASE-NPO-13676-1	US-PATENT-4,145,255
		US-PATENT-CLASS-324-133	US-PATENT-APPL-SN-779415			NASA-CASE-LEW-12542-2
		US-PATENT-CLASS-324-52	US-PATENT-CLASS-340-347DD			US-PATENT-APPL-SN-803822
		US-PATENT-CLASS-340-650	US-PATENT-CLASS-364-900			US-PATENT-APPL-SN-860405
		US-PATENT-CLASS-340-664	US-PATENT-4,139,839			US-PATENT-CLASS-148-12.4
		US-PATENT-4,110,683	N79-20827*	c 71	NASA-CASE-NPO-14005-1	US-PATENT-CLASS-148-12F
N79-18296*	c 35	NASA-CASE-LAR-12275-1	US-PATENT-APPL-SN-812447			US-PATENT-CLASS-148-2
		US-PATENT-APPL-SN-885065	US-PATENT-CLASS-310-20			US-PATENT-4,146,409
		US-PATENT-CLASS-356-28	US-PATENT-CLASS-310-26	N79-22300*	c 27	NASA-CASE-ARC-11060-1
		US-PATENT-4,135,817	US-PATENT-CLASS-310-322			US-PATENT-APPL-SN-843090
N79-18307*	c 36	NASA-CASE-LAR-12183-1	US-PATENT-CLASS-310-334			US-PATENT-CLASS-260-307G
		US-PATENT-CLASS-331-94.5G	US-PATENT-CLASS-318-116			US-PATENT-CLASS-528-401
		US-PATENT-CLASS-331-94.5P	US-PATENT-CLASS-60-721			US-PATENT-CLASS-528-422
		US-PATENT-CLASS-788-704	US-PATENT-CLASS-73-505			US-PATENT-4,145,524
		US-PATENT-4,110,703	US-PATENT-4,139,806	N79-22373*	c 33	NASA-CASE-KSC-11008-1
N79-18318*	c 37	NASA-CASE-LEW-12131-1	N79-20856*	c 74	NASA-CASE-NPO-14174-1	US-PATENT-APPL-SN-780729
		US-PATENT-APPL-SN-801290	US-PATENT-APPL-SN-876441			US-PATENT-CLASS-324-123C
		US-PATENT-CLASS-415-174	US-PATENT-CLASS-250-237G			US-PATENT-CLASS-324-99D
		US-PATENT-CLASS-415-200	US-PATENT-CLASS-354-77			US-PATENT-CLASS-330-2
		US-PATENT-4,135,851	US-PATENT-CLASS-356-129			US-PATENT-CLASS-330-51
N79-18443*	c 44	NASA-CASE-NPO-14058-1	US-PATENT-4,139,291			US-PATENT-CLASS-330-86
						US-PATENT-4,109,213

N79-22474*	c 37	NASA-CASE-MFS-23646-1 US-PATENT-APPL-SN-891372 US-PATENT-CLASS-138-96R US-PATENT-CLASS-220-266 US-PATENT-CLASS-239-265.15 US-PATENT-CLASS-239-288 US-PATENT-CLASS-277-192 US-PATENT-4,146,180						N79-25482*	c 44	NASA-CASE-NPO-14199-1 NASA-CASE-NPO-14200-1 US-PATENT-APPL-SN-891243 US-PATENT-CLASS-136-89CA US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89PC US-PATENT-CLASS-136-89SJ US-PATENT-4,153,476
N79-22475*	c 37	NASA-CASE-LEW-11873-1 US-PATENT-APPL-SN-814006 US-PATENT-CLASS-277-62 US-PATENT-CLASS-277-96.1 US-PATENT-4,145,058	N79-24285*	c 34	NASA-CASE-MSC-16841-1 US-PATENT-APPL-SN-893382 US-PATENT-CLASS-210-108 US-PATENT-CLASS-210-142 US-PATENT-CLASS-73-714 US-PATENT-4,151,086			N79-26075*	c 12	NASA-CASE-MFS-23460-1 US-PATENT-APPL-SN-746578 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-22 US-PATENT-CLASS-13-24 US-PATENT-CLASS-219-410 US-PATENT-4,158,742
N79-22537*	c 39	NASA-CASE-LAR-12027-1 US-PATENT-APPL-SN-889670 US-PATENT-CLASS-73-770 US-PATENT-CLASS-73-810 US-PATENT-4,145,933	N79-24431*	c 44	NASA-CASE-NPO-13652-2 US-PATENT-APPL-SN-848794 US-PATENT-CLASS-228-5.1 US-PATENT-CLASS-228-6 US-PATENT-CLASS-29-57.4 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-739 US-PATENT-CLASS-29-809 US-PATENT-4,149,665			N79-26100*	c 15	NASA-CASE-ARC-11104-1 US-PATENT-APPL-SN-854920 US-PATENT-CLASS-244-121 US-PATENT-CLASS-260-37EP US-PATENT-CLASS-260-830S US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-145 US-PATENT-CLASS-264-151 US-PATENT-CLASS-264-175 US-PATENT-CLASS-264-236 US-PATENT-CLASS-428-220 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-414 US-PATENT-CLASS-428-418 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-920 US-PATENT-4,156,752
N79-22679*	c 46	NASA-CASE-NPO-14112-1 US-PATENT-APPL-SN-826326 US-PATENT-CLASS-102-21.6 US-PATENT-CLASS-166-63 US-PATENT-CLASS-175-1 US-PATENT-CLASS-181-106 US-PATENT-CLASS-181-117 US-PATENT-4,148,375	N79-24432*	c 44	NASA-CASE-NPO-13579-3 US-PATENT-APPL-SN-762363 US-PATENT-CLASS-126-270 US-PATENT-CLASS-264-1 US-PATENT-CLASS-264-33 US-PATENT-CLASS-264-34 US-PATENT-CLASS-264-35 US-PATENT-CLASS-264-510 US-PATENT-CLASS-264-516 US-PATENT-CLASS-264-70 US-PATENT-CLASS-264-71 US-PATENT-CLASS-350-292 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-296 US-PATENT-CLASS-405-229 US-PATENT-CLASS-405-263 US-PATENT-4,149,817			N79-26372*	c 35	NASA-CASE-LAR-11889-1 US-PATENT-APPL-SN-662182 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-178R US-PATENT-4,156,548
N79-23097*	c 08	NASA-CASE-LAR-12215-1 US-PATENT-APPL-SN-858762 US-PATENT-CLASS-244-17.13 US-PATENT-CLASS-244-195 US-PATENT-CLASS-244-83G US-PATENT-CLASS-318-585 US-PATENT-CLASS-318-616 US-PATENT-CLASS-364-434 US-PATENT-4,148,452	N79-24433*	c 44	NASA-CASE-NPO-13579-2 US-PATENT-APPL-SN-762362 US-PATENT-CLASS-126-271 US-PATENT-CLASS-126-400 US-PATENT-CLASS-237-1A US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,149,521			N79-26439*	c 43	NASA-CASE-MFS-23726-1 US-PATENT-APPL-SN-848418 US-PATENT-CLASS-105-161 US-PATENT-CLASS-299-1 US-PATENT-CLASS-33-1N US-PATENT-CLASS-33-1Q US-PATENT-CLASS-33-174L US-PATENT-CLASS-364-560 US-PATENT-4,156,971
N79-23310*	c 32	NASA-CASE-KSC-11023-1 US-PATENT-APPL-SN-918533 US-PATENT-CLASS-179-1MN US-PATENT-CLASS-179-27CA US-PATENT-CLASS-179-84VF US-PATENT-4,153,818	N79-24651*	c 54	NASA-CASE-ARC-11058-2 US-PATENT-APPL-SN-753965 US-PATENT-APPL-SN-883094 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-235 US-PATENT-4,091,464 US-PATENT-4,151,612			N79-26474*	c 44	NASA-CASE-LEW-13150-1 US-PATENT-APPL-SN-914260 US-PATENT-CLASS-429-101 US-PATENT-CLASS-429-15 US-PATENT-4,159,366
N79-23345*	c 33	NASA-CASE-FRC-10116-1 US-PATENT-APPL-SN-885049 US-PATENT-CLASS-323-22T US-PATENT-4,151,456	N79-24652*	c 54	NASA-CASE-NPO-13906-1 US-PATENT-APPL-SN-837259 US-PATENT-CLASS-3-1.1 US-PATENT-CLASS-3-12.5 US-PATENT-CLASS-414-6 US-PATENT-4,149,278			N79-26475*	c 44	NASA-CASE-MFS-23540-1 US-PATENT-APPL-SN-863773 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-577 US-PATENT-CLASS-29-578 US-PATENT-CLASS-29-580 US-PATENT-CLASS-357-45 US-PATENT-4,156,309
N79-23481*	c 44	NASA-CASE-MFS-23349-1 US-PATENT-APPL-SN-823061 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-4,148,295	N79-24976*	c 05	NASA-CASE-LEW-11890-1 US-PATENT-APPL-SN-891244 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-244-53B US-PATENT-4,154,256			N79-26771*	c 52	NASA-CASE-ARC-10994-2 US-PATENT-APPL-SN-759965 US-PATENT-CLASS-128-660 US-PATENT-CLASS-73-626 US-PATENT-4,154,230
N79-23555*	c 46	NASA-CASE-NPO-14255-1 US-PATENT-APPL-SN-830458 US-PATENT-CLASS-181-115 US-PATENT-CLASS-181-120 US-PATENT-CLASS-340-12R US-PATENT-4,153,134	N79-25142*	c 24	NASA-CASE-MSC-12737-1 US-PATENT-APPL-SN-788045 US-PATENT-CLASS-102-105 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-163 US-PATENT-CLASS-427-350 US-PATENT-CLASS-427-372A US-PATENT-CLASS-428-137 US-PATENT-CLASS-428-282 US-PATENT-CLASS-428-290 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-920 US-PATENT-4,151,800			N79-26772*	c 52	NASA-CASE-KSC-11069-1 US-PATENT-APPL-SN-876438 US-PATENT-CLASS-3-1.9 US-PATENT-CLASS-3-12 US-PATENT-CLASS-3-2 US-PATENT-4,158,895
N79-23753*	c 71	NASA-CASE-NPO-14134-1 US-PATENT-APPL-SN-861392 US-PATENT-CLASS-179-1DM US-PATENT-CLASS-179-1MF US-PATENT-CLASS-181-148 US-PATENT-CLASS-340-8LF US-PATENT-4,149,034	N79-25443*	c 43	NASA-CASE-MFS-23720-3 US-PATENT-APPL-SN-848420 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-82 US-PATENT-4,154,084			N79-27836*	c 52	NASA-CASE-NPO-13910-1 US-PATENT-APPL-SN-712270 US-PATENT-CLASS-128-329R US-PATENT-CLASS-128-639 US-PATENT-4,154,228
N79-23798*	c 76	NASA-CASE-NPO-13969-1 US-PATENT-APPL-SN-820499 US-PATENT-CLASS-156-DIG.6.8 US-PATENT-CLASS-156-617SP US-PATENT-CLASS-423-345 US-PATENT-4,152,194	N79-25481*	c 44	NASA-CASE-LEW-12972-1 US-PATENT-APPL-SN-897829 US-PATENT-CLASS-429-253 US-PATENT-CLASS-526-7 US-PATENT-CLASS-526-9 US-PATENT-4,154,912			N79-28253*	c 25	NASA-CASE-NPO-13650-1 US-PATENT-APPL-SN-704468 US-PATENT-CLASS-118-49 US-PATENT-CLASS-23-252R US-PATENT-CLASS-248 US-PATENT-CLASS-253 US-PATENT-CLASS-337 US-PATENT-CLASS-349 US-PATENT-CLASS-423-33.5 US-PATENT-CLASS-427-95 US-PATENT-4,033,286
N79-24062*	c 24	NASA-CASE-ARC-11169-1 US-PATENT-APPL-SN-940688 US-PATENT-CLASS-428-366 US-PATENT-4,148,962						N79-28307*	c 27	NASA-CASE-LEW-12053-2 US-PATENT-APPL-SN-796263 US-PATENT-CLASS-260-37N US-PATENT-CLASS-260-42 US-PATENT-CLASS-260-53 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-127 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-221 US-PATENT-CLASS-528-223
N79-24073*	c 25	NASA-CASE-LAR-11922-1 US-PATENT-APPL-SN-856460 US-PATENT-CLASS-195-127 US-PATENT-CLASS-204-195B US-PATENT-4,149,938								
N79-24203*	c 32	NASA-CASE-LAR-12375-1 US-PATENT-APPL-SN-900842 US-PATENT-CLASS-73-647 US-PATENT-CLASS-73-724 US-PATENT-4,149,423								
N79-24210*	c 32	NASA-CASE-NPO-13641-1 US-PATENT-APPL-SN-777983 US-PATENT-CLASS-343-100TD US-PATENT-4,148,031								
N79-24254*	c 33	NASA-CASE-NPO-14000-1 US-PATENT-APPL-SN-876431 US-PATENT-CLASS-307-82 US-PATENT-CLASS-363-56 US-PATENT-CLASS-363-71 US-PATENT-CLASS-363-97 US-PATENT-4,150,425								
N79-24257*	c 33	NASA-CASE-NPO-14056-1 US-PATENT-APPL-SN-833637								

				US-PATENT-CLASS-528-225	N79-33316*	c 27	NASA-CASE-LAR-12054-1	N80-10799*	c 54	NASA-CASE-MSC-16182-1
				US-PATENT-CLASS-528-227			US-PATENT-APPL-SN-839963			US-PATENT-APPL-SN-780938
				US-PATENT-CLASS-528-229			US-PATENT-CLASS-264-137			US-PATENT-CLASS-128-142R
				US-PATENT-CLASS-528-331			US-PATENT-CLASS-428-474			US-PATENT-CLASS-128-191R
				US-PATENT-CLASS-528-336			US-PATENT-CLASS-528-229			US-PATENT-CLASS-128-212
				US-PATENT-CLASS-528-337			US-PATENT-4,166,170			US-PATENT-4,168,706
				US-PATENT-CLASS-528-338	N79-33392*	c 33	NASA-CASE-XMF-04494-1	N80-14107*	c 05	NASA-CASE-ARC-11106-1
				US-PATENT-CLASS-528-342			US-PATENT-APPL-SN-547643			US-PATENT-APPL-SN-831633
				US-PATENT-CLASS-544-193			US-PATENT-CLASS-200-83			US-PATENT-APPL-SN-943088
				US-PATENT-4,159,262			US-PATENT-3,378,657			US-PATENT-CLASS-416-228
N79-28342*	c 28			NASA-CASE-NPO-14260-1	N79-33393*	c 33	NASA-CASE-XMS-01244-1	N80-14183*	c 18	NASA-CASE-GSC-12331-1
				US-PATENT-APPL-SN-861390			US-PATENT-APPL-SN-20370			US-PATENT-APPL-SN-943088
				US-PATENT-CLASS-149-19.4			US-PATENT-CLASS-200-114			US-PATENT-CLASS-343-880
				US-PATENT-CLASS-149-19.9			US-PATENT-3,123,692			US-PATENT-CLASS-343-883
				US-PATENT-CLASS-149-20	N79-33449*	c 35	NASA-CASE-XGS-01245-1			US-PATENT-4,176,360
				US-PATENT-4,158,583			US-PATENT-APPL-SN-134619			US-PATENT-4,168,939
N79-28370*	c 31			NASA-CASE-MFS-23721-1			US-PATENT-CLASS-338-18	N80-14188*	c 20	NASA-CASE-XLE-02062-1
				US-PATENT-APPL-SN-847277			US-PATENT-3,119,086			US-PATENT-APPL-SN-545793
				US-PATENT-CLASS-343-14	N79-33450*	c 35	NASA-CASE-XGS-01293-1			US-PATENT-CLASS-60-203
				US-PATENT-CLASS-343-5NA			US-PATENT-APPL-SN-150690			US-PATENT-CLASS-60-259
				US-PATENT-4,161,731			US-PATENT-CLASS-73-400			US-PATENT-4,171,615
N79-28415*	c 33			NASA-CASE-MSC-16697-1			US-PATENT-3,190,124	N80-14229*	c 26	NASA-CASE-NPO-14474-1
				US-PATENT-APPL-SN-885067	N79-33467*	c 37	NASA-CASE-XMS-01077-1			US-PATENT-APPL-SN-918537
				US-PATENT-CLASS-307-119			US-PATENT-APPL-SN-228049			US-PATENT-CLASS-423-149
				US-PATENT-CLASS-307-98			US-PATENT-CLASS-312-319			US-PATENT-CLASS-423-293
				US-PATENT-CLASS-361-170			US-PATENT-3,123,418			US-PATENT-CLASS-423-348
				US-PATENT-4,161,661	N79-33468*	c 37	NASA-CASE-HON-00573-1			US-PATENT-CLASS-423-417
N79-28416*	c 33			NASA-CASE-GSC-12171-1			US-PATENT-APPL-SN-129379			US-PATENT-CLASS-423-625
				US-PATENT-APPL-SN-878542			US-PATENT-CLASS-137-14			US-PATENT-4,172,883
				US-PATENT-CLASS-343-909			US-PATENT-3,134,389	N80-14281*	c 32	NASA-CASE-NPO-13830-1
				US-PATENT-4,160,254	N79-33469*	c 37	NASA-CASE-XGS-01286-1			US-PATENT-APPL-SN-703905
N79-28527*	c 35			NASA-CASE-NPO-13953-1			US-PATENT-APPL-SN-142583			US-PATENT-APPL-SN-834257
				US-PATENT-APPL-SN-880727			US-PATENT-CLASS-251-172			US-PATENT-CLASS-333-81R
				US-PATENT-CLASS-356-237			US-PATENT-3,293,862			US-PATENT-CLASS-343-18A
				US-PATENT-CLASS-356-404	N79-34011*	c 74	NASA-CASE-NPO-14066-1			US-PATENT-CLASS-343-909
				US-PATENT-4,160,601			US-PATENT-APPL-SN-827464			US-PATENT-4,164,718
N79-28549*	c 37			NASA-CASE-GSC-12297-1			US-PATENT-CLASS-250-216	N80-14330*	c 33	NASA-CASE-NPO-10857-1
				US-PATENT-APPL-SN-880838			US-PATENT-CLASS-250-551			US-PATENT-APPL-SN-888362
				US-PATENT-CLASS-165-105			US-PATENT-4,166,959			US-PATENT-CLASS-315-145
				US-PATENT-CLASS-357-74	N80-10278*	c 20	NASA-CASE-MFS-23642-1			US-PATENT-CLASS-315-260
				US-PATENT-CLASS-357-79			US-PATENT-APPL-SN-923758			US-PATENT-CLASS-315-334
				US-PATENT-CLASS-357-81			US-PATENT-CLASS-137-177			US-PATENT-3,635,537
				US-PATENT-CLASS-357-82			US-PATENT-CLASS-137-209	N80-14332*	c 33	NASA-CASE-NPO-14350-1
				US-PATENT-CLASS-357-83			US-PATENT-CLASS-137-574			US-PATENT-APPL-SN-921627
				US-PATENT-4,161,747			US-PATENT-CLASS-137-576			US-PATENT-CLASS-250-310
N79-28550*	c 37			NASA-CASE-GSC-12274-1			US-PATENT-CLASS-137-590			US-PATENT-CLASS-250-492A
				US-PATENT-APPL-SN-909100			US-PATENT-CLASS-244-135R			US-PATENT-CLASS-324-158T
				US-PATENT-CLASS-251-7			US-PATENT-4,168,718			US-PATENT-4,172,228
				US-PATENT-CLASS-72-436	N80-10358*	c 27	NASA-CASE-MSC-14903-2	N80-14371*	c 35	NASA-CASE-LAR-11690-1
				US-PATENT-CLASS-72-451			US-PATENT-APPL-SN-706424			US-PATENT-APPL-SN-928129
				US-PATENT-CLASS-72-470			US-PATENT-APPL-SN-907435			US-PATENT-CLASS-73-655
				US-PATENT-4,159,634			US-PATENT-CLASS-260-926			US-PATENT-CLASS-73-661
N79-28551*	c 37			NASA-CASE-ARC-11052-1			US-PATENT-4,092,466			US-PATENT-4,171,645
				US-PATENT-APPL-SN-826202			US-PATENT-4,168,287	N80-14384*	c 36	NASA-CASE-GSC-12237-1
				US-PATENT-CLASS-414-4	N80-10374*	c 28	NASA-CASE-NPO-13849-1			US-PATENT-APPL-SN-837795
				US-PATENT-4,160,508			NASA-CASE-NPO-13907-1			US-PATENT-CLASS-331-94.5C
N79-31228*	c 09			NASA-CASE-LAR-12149-2			US-PATENT-APPL-SN-668783			US-PATENT-CLASS-331-94.5P
				US-PATENT-APPL-SN-829314			US-PATENT-CLASS-123-DIG.12			US-PATENT-4,173,001
				US-PATENT-APPL-SN-928131			US-PATENT-CLASS-123-179R	N80-14395*	c 37	NASA-CASE-XNP-08835-1
				US-PATENT-CLASS-35-12E			US-PATENT-CLASS-123-3			US-PATENT-APPL-SN-534931
				US-PATENT-CLASS-35-12H			US-PATENT-CLASS-23-288R			US-PATENT-CLASS-204-224
				US-PATENT-4,164,079			US-PATENT-CLASS-423-650			US-PATENT-3,352,774
N79-31347*	c 24			NASA-CASE-GSC-12303-1			US-PATENT-CLASS-48-DIG.8	N80-14397*	c 37	NASA-CASE-MFS-23284-1
				US-PATENT-APPL-SN-862880			US-PATENT-CLASS-48-10.3			US-PATENT-APPL-SN-753103
				US-PATENT-CLASS-106-74			US-PATENT-CLASS-48-102A			US-PATENT-CLASS-204-180G
				US-PATENT-CLASS-106-84			US-PATENT-CLASS-48-107			US-PATENT-CLASS-204-299R
				US-PATENT-4,162,169			US-PATENT-CLASS-48-117			US-PATENT-4,040,940
N79-31523*	c 34			NASA-CASE-GSC-12253-1			US-PATENT-CLASS-48-61	N80-14398*	c 37	NASA-CASE-GSC-12322-1
				US-PATENT-APPL-SN-853677			US-PATENT-CLASS-60-300			US-PATENT-APPL-SN-907436
				US-PATENT-CLASS-165-105			US-PATENT-CLASS-60-606			US-PATENT-CLASS-244-161
				US-PATENT-CLASS-165-32			US-PATENT-4,033,133			US-PATENT-CLASS-269-156
				US-PATENT-CLASS-244-1R	N80-10494*	c 37	NASA-CASE-NPO-14384-1			US-PATENT-CLASS-294-113
				US-PATENT-CLASS-244-163			US-PATENT-APPL-SN-880728			US-PATENT-CLASS-294-86R
				US-PATENT-4,162,701			US-PATENT-CLASS-210-186			US-PATENT-CLASS-414-1
N79-31706*	c 43			NASA-CASE-MFS-23725-1			US-PATENT-CLASS-210-340	N80-14423*	c 43	NASA-CASE-MFS-23720-2
				US-PATENT-APPL-SN-848793			US-PATENT-CLASS-239-102			US-PATENT-APPL-SN-848421
				US-PATENT-CLASS-250-253			US-PATENT-CLASS-239-302			US-PATENT-CLASS-73-12
				US-PATENT-CLASS-250-272			US-PATENT-CLASS-422-187			US-PATENT-CLASS-73-82
				US-PATENT-4,165,460			US-PATENT-CLASS-422-199			US-PATENT-4,157,655
N79-31752*	c 44			NASA-CASE-NPO-14205-1			US-PATENT-CLASS-422-208	N80-14472*	c 44	NASA-CASE-LEW-12586-1
				US-PATENT-APPL-SN-920879			US-PATENT-CLASS-422-235			US-PATENT-APPL-SN-916655
				US-PATENT-CLASS-106-1			US-PATENT-CLASS-422-242			US-PATENT-CLASS-307-63
				US-PATENT-CLASS-106-1.2			US-PATENT-CLASS-423-350			US-PATENT-CLASS-307-66
				US-PATENT-CLASS-136-89CC			US-PATENT-4,169,129			US-PATENT-CLASS-323-15
				US-PATENT-CLASS-252-514	N80-10507*	c 39	NASA-CASE-NPO-14192-1			US-PATENT-CLASS-323-19
				US-PATENT-CLASS-29-572			US-PATENT-APPL-SN-830562			US-PATENT-4,175,249
				US-PATENT-CLASS-29-589			US-PATENT-CLASS-181-102	N80-14473*	c 44	NASA-CASE-MFS-23727-1
				US-PATENT-CLASS-357-30			US-PATENT-CLASS-181-105			US-PATENT-APPL-SN-856465
				US-PATENT-CLASS-357-65			US-PATENT-CLASS-367-26			US-PATENT-CLASS-126-438
				US-PATENT-CLASS-357-67			US-PATENT-CLASS-467-28			US-PATENT-CLASS-126-442
				US-PATENT-CLASS-427-88			US-PATENT-4,168,483			US-PATENT-CLASS-350-295
				US-PATENT-4,163,678	N80-10709*	c 46	NASA-CASE-NPO-14231-1			US-PATENT-CLASS-350-296
N79-31753*	c 44			NASA-CASE-NPO-14467-1			US-PATENT-APPL-SN-903019	N80-14474*	c 44	NASA-CASE-NPO-13652-3
				US-PATENT-APPL-SN-946994			US-PATENT-CLASS-175-78			
				US-PATENT-CLASS-136-89PC			US-PATENT-CLASS-73-155			
				US-PATENT-4,162,928			US-PATENT-4,167,111			

				US-PATENT-APPL-SN-809890				US-PATENT-CLASS-73-188				US-PATENT-CLASS-156-278
				US-PATENT-APPL-SN-891358				US-PATENT-CLASS-73-189				US-PATENT-CLASS-156-285
				US-PATENT-CLASS-136-89P				US-PATENT-CLASS-73-212				US-PATENT-CLASS-156-303
				US-PATENT-CLASS-29-572				US-PATENT-4,184,149				US-PATENT-CLASS-156-312
				US-PATENT-CLASS-29-588	N80-18039*	c 07		NASA-CASE-LEW-12971-1				US-PATENT-4,184,903
				US-PATENT-CLASS-29-627				US-PATENT-APPL-SN-858936	N80-18551*	c 44		NASA-CASE-NPO-14096-1
				US-PATENT-4,133,697				US-PATENT-CLASS-60-240				US-PATENT-APPL-SN-928128
				US-PATENT-4,173,820				US-PATENT-CLASS-60-39.03				US-PATENT-CLASS-324-158D
N80-14579*	c 45			NASA-CASE-NPO-14340-1				US-PATENT-CLASS-60-39.27				US-PATENT-CLASS-324-404
				US-PATENT-APPL-SN-946992				US-PATENT-4,184,327				US-PATENT-4,184,111
				US-PATENT-CLASS-210-57	N80-18097*	c 20		NASA-CASE-MSC-18179-1				NASA-CASE-LAR-11999-1
				US-PATENT-CLASS-210-63Z				US-PATENT-APPL-SN-931218	N80-18552*	c 44		US-PATENT-APPL-SN-876299
				US-PATENT-CLASS-422-9				US-PATENT-CLASS-60-63Z				US-PATENT-CLASS-250-211K
				US-PATENT-4,172,786				US-PATENT-4,183,217				US-PATENT-CLASS-250-231SE
N80-14603*	c 46			NASA-CASE-NPO-14124-1	N80-18231*	c 31		NASA-CASE-NPO-14382-1				US-PATENT-4,184,072
				US-PATENT-APPL-SN-863024				US-PATENT-APPL-SN-891373	N80-18667*	c 48		NASA-CASE-MFS-23862-1
				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-261-118				US-PATENT-APPL-SN-951423
				US-PATENT-CLASS-343-112D				US-PATENT-CLASS-422-224				US-PATENT-CLASS-73-170A
				US-PATENT-4,170,776				US-PATENT-CLASS-423-350				US-PATENT-4,184,368
N80-14684*	c 52			NASA-CASE-LEW-12955-1	N80-18252*	c 32		US-PATENT-4,188,368	N80-18690*	c 52		NASA-CASE-LEW-12723-1
				US-PATENT-APPL-SN-829318				NASA-CASE-NPO-14152-1				US-PATENT-APPL-SN-829317
				US-PATENT-CLASS-128-276				US-PATENT-APPL-SN-899828				US-PATENT-CLASS-128-276
				US-PATENT-4,157,718				US-PATENT-CLASS-178-58R				US-PATENT-CLASS-128-760
N80-14687*	c 52			NASA-CASE-NPO-14101-1				US-PATENT-CLASS-179-15BA				US-PATENT-4,184,491
				US-PATENT-APPL-SN-772434				US-PATENT-4,187,394	N80-18691*	c 52		NASA-CASE-ARC-11120-1
				US-PATENT-CLASS-210-22	N80-18253*	c 32		NASA-CASE-NPO-14328-1				US-PATENT-APPL-SN-796256
				US-PATENT-CLASS-210-321B				NASA-CASE-NPO-14579-1				US-PATENT-CLASS-128-748
				US-PATENT-4,094,775				NASA-CASE-NPO-14590-1				US-PATENT-CLASS-128-903
N80-14877*	c 72			NASA-CASE-NPO-14078-1				US-PATENT-APPL-SN-956160				US-PATENT-CLASS-73-724
				US-PATENT-APPL-SN-856486				US-PATENT-CLASS-325-305				US-PATENT-4,186,749
				US-PATENT-CLASS-250-281				US-PATENT-CLASS-325-307	N80-18951*	c 76		NASA-CASE-GSC-12291-1
				US-PATENT-CLASS-250-282				US-PATENT-CLASS-325-419				US-PATENT-APPL-SN-906298
				US-PATENT-CLASS-250-423P				US-PATENT-4,186,347				US-PATENT-CLASS-125-23R
				US-PATENT-4,158,775	N80-18285*	c 33		NASA-CASE-NPO-14229-1				US-PATENT-CLASS-269-21
N80-16116*	c 25			NASA-CASE-ARC-11107-1				US-PATENT-APPL-SN-835419				US-PATENT-CLASS-51-235
				US-PATENT-APPL-SN-883961				US-PATENT-APPL-SN-949886				US-PATENT-CLASS-83-152
				US-PATENT-CLASS-521-124				US-PATENT-CLASS-200-153S				US-PATENT-CLASS-83-870
				US-PATENT-CLASS-521-125				US-PATENT-CLASS-200-304				US-PATENT-4,184,472
				US-PATENT-CLASS-521-127				US-PATENT-CLASS-333-262	N80-20224*	c 02		NASA-CASE-LAR-12261-1
				US-PATENT-CLASS-521-157				US-PATENT-4,187,416				US-PATENT-APPL-SN-964009
				US-PATENT-CLASS-528-73	N80-18286*	c 33		NASA-CASE-GSC-12347-1				US-PATENT-CLASS-73-147
				US-PATENT-4,177,333				US-PATENT-APPL-SN-868249				US-PATENT-CLASS-73-205L
N80-16158*	c 27			NASA-CASE-LAR-12099-1				US-PATENT-CLASS-174-142				US-PATENT-4,188,823
				US-PATENT-APPL-SN-906299				US-PATENT-CLASS-174-73R	N80-20334*	c 25		NASA-CASE-NPO-14079-1
				US-PATENT-CLASS-528-207				US-PATENT-4,185,164				US-PATENT-APPL-SN-958573
				US-PATENT-CLASS-528-208	N80-18287*	c 33		NASA-CASE-NPO-14224-1				US-PATENT-CLASS-250-307
				US-PATENT-4,180,648				US-PATENT-APPL-SN-951829				US-PATENT-CLASS-250-308
N80-16163* #	c 27			NASA-CASE-NPO-14021-2				US-PATENT-CLASS-310-306				US-PATENT-4,194,115
				US-PATENT-APPL-SN-106188				US-PATENT-CLASS-343-100R	N80-20402*	c 28		NASA-CASE-LEW-12081-2
N80-16261* #	c 32			NASA-CASE-NPO-14362-1				US-PATENT-CLASS-343-100ST				US-PATENT-APPL-SN-676432
				US-PATENT-APPL-SN-106118				US-PATENT-4,187,506				US-PATENT-APPL-SN-837794
N80-16321*	c 36			NASA-CASE-LAR-12176-1	N80-18357*	c 35		NASA-CASE-NPO-14501-1				US-PATENT-CLASS-149-1
				US-PATENT-APPL-SN-929083				US-PATENT-APPL-SN-918535				US-PATENT-CLASS-423-648R
				US-PATENT-CLASS-332-751				US-PATENT-CLASS-264-40.4				US-PATENT-4,193,827
				US-PATENT-CLASS-350-359				US-PATENT-CLASS-73-343R	N80-20448*	c 32		NASA-CASE-NPO-14480-1
				US-PATENT-CLASS-356-243				US-PATENT-CLASS-73-56				US-PATENT-APPL-SN-910707
				US-PATENT-CLASS-356-28				US-PATENT-4,185,493				US-PATENT-CLASS-325-14
				US-PATENT-4,176,950	N80-18358*	c 35		NASA-CASE-LAR-12269-1				US-PATENT-CLASS-325-4
N80-16452*	c 44			NASA-CASE-MFS-23518-3				US-PATENT-APPL-SN-934576				US-PATENT-CLASS-325-9
				US-PATENT-APPL-SN-829390				US-PATENT-CLASS-73-4R				US-PATENT-4,189,675
				US-PATENT-APPL-SN-910793				US-PATENT-CLASS-73-40	N80-20487*	c 33		NASA-CASE-LEW-13148-1
				US-PATENT-CLASS-126-417				US-PATENT-4,182,158				US-PATENT-APPL-SN-964754
				US-PATENT-CLASS-126-901	N80-18359*	c 35		NASA-CASE-GSC-12219-1				US-PATENT-CLASS-429-101
				US-PATENT-CLASS-428-629				US-PATENT-APPL-SN-891356				US-PATENT-CLASS-429-105
				US-PATENT-CLASS-428-650				US-PATENT-CLASS-325-363				US-PATENT-CLASS-429-107
				US-PATENT-CLASS-428-658				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-429-109
				US-PATENT-CLASS-428-675				US-PATENT-CLASS-356-216				US-PATENT-4,192,910
				US-PATENT-CLASS-428-680				US-PATENT-CLASS-73-355R	N80-20559*	c 35		NASA-CASE-LAR-12304-1
				US-PATENT-4,104,134				US-PATENT-4,178,100				US-PATENT-APPL-SN-928130
				US-PATENT-4,177,325	N80-18364* #	c 35		NASA-CASE-NPO-13606-2				US-PATENT-CLASS-29-25.35
N80-16714*	c 51			NASA-CASE-MSC-16260-1				US-PATENT-APPL-SN-065676				US-PATENT-CLASS-310-311
				US-PATENT-APPL-SN-876440	N80-18372*	c 36		NASA-CASE-NPO-14254-1				US-PATENT-CLASS-310-327
				US-PATENT-CLASS-23-927				US-PATENT-APPL-SN-876432				US-PATENT-CLASS-310-334
				US-PATENT-CLASS-422-52				US-PATENT-CLASS-330-4				US-PATENT-CLASS-310-360
				US-PATENT-CLASS-435-34				US-PATENT-CLASS-331-94				US-PATENT-4,195,244
				US-PATENT-4,176,007				US-PATENT-CLASS-333-24R	N80-20560*	c 35		NASA-CASE-FRC-10093-1
N80-16715*	c 51			NASA-CASE-MFS-23883-1				US-PATENT-4,187,470				US-PATENT-APPL-SN-878539
				US-PATENT-APPL-SN-017888	N80-18393*	c 37		NASA-CASE-ARC-11157-1				US-PATENT-CLASS-219-85CA
				US-PATENT-CLASS-204-180R				US-PATENT-APPL-SN-935827				US-PATENT-CLASS-219-85CM
				US-PATENT-CLASS-204-299R				US-PATENT-CLASS-220-423				US-PATENT-CLASS-219-85R
				US-PATENT-CLASS-424-12				US-PATENT-CLASS-220-445				US-PATENT-CLASS-338-2
				US-PATENT-4,181,589				US-PATENT-CLASS-220-901				US-PATENT-4,195,279
N80-16725*	c 52			NASA-CASE-NPO-14092-1				US-PATENT-4,184,609	N80-20563*	c 35		NASA-CASE-NPO-14093-1
				US-PATENT-APPL-SN-807597	N80-18400* #	c 37		NASA-CASE-NPO-12131-3				US-PATENT-APPL-SN-880729
				US-PATENT-CLASS-128-DIG.9				US-PATENT-APPL-SN-096255				US-PATENT-CLASS-356-346
				US-PATENT-CLASS-128-348	N80-18498*	c 43		NASA-CASE-LAR-12344-1				US-PATENT-4,193,693
				US-PATENT-CLASS-128-6				US-PATENT-APPL-SN-945041	N80-20808*	c 44		NASA-CASE-NPO-14237-1
				US-PATENT-CLASS-138-103				US-PATENT-CLASS-343-18B				US-PATENT-APPL-SN-897831
				US-PATENT-CLASS-138-133				US-PATENT-CLASS-343-18D				US-PATENT-CLASS-126-263
				US-PATENT-CLASS-138-33				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-149-15
				US-PATENT-CLASS-219-201				US-PATENT-CLASS-343-5W				US-PATENT-CLASS-149-37
				US-PATENT-CLASS-219-522				US-PATENT-4,184,155				US-PATENT-CLASS-220-429
				US-PATENT-4,176,662	N80-18550*	c 44		NASA-CASE-NPO-14303-1				US-PATENT-4,193,388
N80-18036*	c 06			NASA-CASE-FRC-11009-1				NASA-CASE-NPO-14305-1	N80-20810*	c 44		NASA-CASE-LAR-12205-1
				US-PATENT-APPL-SN-910708				US-PATENT-APPL-SN-928133				US-PATENT-APPL-SN-900843
				US-PATENT-CLASS-340-177VA				US-PATENT-CLASS-156-104				

				US-PATENT-CLASS-126-419				US-PATENT-APPL-SN-848419				US-PATENT-APPL-SN-956529
				US-PATENT-CLASS-126-434				US-PATENT-CLASS-73-12				US-PATENT-CLASS-250-338
				US-PATENT-CLASS-126-437				US-PATENT-CLASS-73-82				US-PATENT-CLASS-250-352
				US-PATENT-CLASS-165-32				US-PATENT-4,195,512				US-PATENT-CLASS-250-353
				US-PATENT-4,192,290				NASA-CASE-FRC-11012-1				US-PATENT-CLASS-356-328
N80-21138*	c 74			NASA-CASE-LAR-12178-1		N80-23969*	c 52	US-PATENT-APPL-SN-928137		N80-26658*	c 37	US-PATENT-4,205,229
				US-PATENT-APPL-SN-953390				US-PATENT-CLASS-128-666				NASA-CASE-LEW-12131-2
				US-PATENT-CLASS-350-25				US-PATENT-CLASS-128-690				US-PATENT-APPL-SN-801290
				US-PATENT-CLASS-350-285				US-PATENT-4,198,988				US-PATENT-APPL-SN-931090
				US-PATENT-CLASS-356-150		N80-24149*	c 74	NASA-CASE-GSC-12348-1				US-PATENT-CLASS-415-174
				US-PATENT-CLASS-356-152				US-PATENT-APPL-SN-929088				US-PATENT-CLASS-415-196
N80-21140*	c 74			US-PATENT-4,189,234				US-PATENT-CLASS-51-277				US-PATENT-4,135,851
				NASA-CASE-GSC-12357-1				US-PATENT-CLASS-51-283R				US-PATENT-4,207,024
				US-PATENT-APPL-SN-943089				US-PATENT-CLASS-65-61		N80-27067*	c 51	NASA-CASE-MSC-16777-1
				US-PATENT-CLASS-250-277CH				US-PATENT-4,198,788				US-PATENT-APPL-SN-893657
				US-PATENT-CLASS-250-280		N80-24437*	c 27	NASA-CASE-LEW-13027-1				US-PATENT-CLASS-204-195B
				US-PATENT-CLASS-350-162R				US-PATENT-APPL-SN-958575				US-PATENT-CLASS-23-230B
				US-PATENT-CLASS-356-334				US-PATENT-CLASS-427-164				US-PATENT-CLASS-422-68
				US-PATENT-4,192,994				US-PATENT-CLASS-427-38				US-PATENT-CLASS-435-289
N80-21719*	c 35			NASA-CASE-GSC-12273-1				US-PATENT-CLASS-427-40				US-PATENT-CLASS-435-290
				US-PATENT-APPL-SN-897830				US-PATENT-CLASS-428-421				US-PATENT-CLASS-435-291
				US-PATENT-CLASS-244-165				US-PATENT-CLASS-428-474				US-PATENT-CLASS-435-3
				US-PATENT-CLASS-244-170				US-PATENT-4,199,650				US-PATENT-CLASS-435-311
				US-PATENT-4,193,570		N80-24438*	c 27	NASA-CASE-MSC-14903-3				US-PATENT-CLASS-435-316
N80-21828*	c 44			NASA-CASE-MFS-23515-1				US-PATENT-APPL-SN-706424				US-PATENT-CLASS-435-32
				US-PATENT-APPL-SN-880726				US-PATENT-APPL-SN-907479				US-PATENT-CLASS-435-34
				US-PATENT-CLASS-415-101				US-PATENT-CLASS-260-DIG.29				US-PATENT-CLASS-435-38
				US-PATENT-CLASS-415-2				US-PATENT-CLASS-525-326				US-PATENT-CLASS-435-39
				US-PATENT-4,191,505				US-PATENT-CLASS-525-336		N80-27072*	c 52	US-PATENT-4,204,037
N80-23383*	c 25			NASA-CASE-ARC-11154-1				US-PATENT-CLASS-525-340				NASA-CASE-NPO-14212-1
				US-PATENT-APPL-SN-921626				US-PATENT-CLASS-525-374				US-PATENT-APPL-SN-838308
				US-PATENT-CLASS-521-146				US-PATENT-CLASS-525-375				US-PATENT-CLASS-128-642
				US-PATENT-CLASS-521-55				US-PATENT-CLASS-526-261				US-PATENT-CLASS-128-774
				US-PATENT-CLASS-521-918				US-PATENT-CLASS-526-275				US-PATENT-CLASS-128-782
				US-PATENT-CLASS-525-4				US-PATENT-CLASS-526-276				US-PATENT-CLASS-33-125R
				US-PATENT-CLASS-55-66				US-PATENT-CLASS-526-278				US-PATENT-CLASS-338-2
				US-PATENT-CLASS-55-67				US-PATENT-CLASS-528-481				US-PATENT-CLASS-73-781
				US-PATENT-CLASS-55-68				US-PATENT-4,200,721		N80-27163*	c 72	US-PATENT-4,204,544
				US-PATENT-CLASS-55-72		N80-24510*	c 32	NASA-CASE-NPO-14524-1				NASA-CASE-NPO-14324-1
				US-PATENT-4,198,792				NASA-CASE-NPO-14527-1				US-PATENT-APPL-SN-940970
N80-23419*	c 26			NASA-CASE-MFS-23816-1				US-PATENT-APPL-SN-957452				US-PATENT-CLASS-250-427
				US-PATENT-APPL-SN-974292				US-PATENT-CLASS-350-294				US-PATENT-CLASS-313-156
				US-PATENT-CLASS-148-32				US-PATENT-CLASS-350-6.5				US-PATENT-CLASS-313-362
				US-PATENT-CLASS-75-135				US-PATENT-CLASS-350-6.6				US-PATENT-CLASS-313-363
				US-PATENT-CLASS-75-138				US-PATENT-CLASS-356-28.5				US-PATENT-4,206,383
				US-PATENT-CLASS-75-178R				US-PATENT-4,201,468		N80-27185*	c 74	NASA-CASE-LAR-12251-1
				US-PATENT-4,198,232		N80-24573*	c 34	NASA-CASE-LEW-12441-2				US-PATENT-APPL-SN-953389
N80-23452*	c 27			NASA-CASE-ARC-10980-1				US-PATENT-APPL-SN-559846				US-PATENT-CLASS-350-175E
				US-PATENT-APPL-SN-694407				US-PATENT-APPL-SN-856462				US-PATENT-CLASS-350-226
				US-PATENT-CLASS-204-171				US-PATENT-CLASS-239-127.1				US-PATENT-4,206,970
				US-PATENT-CLASS-210-23H				US-PATENT-CLASS-60-267		N80-28300*	c 02	NASA-CASE-FRC-11024-1
				US-PATENT-CLASS-210-500M				US-PATENT-4,199,937				US-PATENT-APPL-SN-015983
				US-PATENT-CLASS-427-245		N80-24741*	c 44	NASA-CASE-NPO-14635-1				US-PATENT-CLASS-73-180
				US-PATENT-CLASS-427-41				US-PATENT-APPL-SN-008212				US-PATENT-CLASS-73-182
				US-PATENT-4,199,448				US-PATENT-CLASS-136-89SG				US-PATENT-CLASS-73-861.65
N80-23471*	c 28			NASA-CASE-NPO-14109-1				US-PATENT-CLASS-156-DIG.64				US-PATENT-CLASS-73-861.66
				US-PATENT-APPL-SN-946990				US-PATENT-CLASS-156-605				US-PATENT-4,212,199
				US-PATENT-CLASS-149-108.4				US-PATENT-CLASS-156-617SP		N80-28492*	c 26	NASA-CASE-LAR-11821-1
				US-PATENT-CLASS-23-300				US-PATENT-CLASS-252-62.3E				US-PATENT-APPL-SN-023501
				US-PATENT-CLASS-23-302A				US-PATENT-4,210,622				US-PATENT-CLASS-148-131
				US-PATENT-CLASS-23-302R		N80-24906*	c 46	NASA-CASE-NPO-14558-1				US-PATENT-CLASS-266-119
				US-PATENT-CLASS-23-302T				US-PATENT-APPL-SN-945436				US-PATENT-CLASS-266-249
				US-PATENT-4,198,209				US-PATENT-CLASS-73-155				US-PATENT-CLASS-266-274
N80-23524*	c 32			NASA-CASE-NPO-14519-1				US-PATENT-4,196,619		N80-28536*	c 28	US-PATENT-4,212,690
				US-PATENT-APPL-SN-008207		N80-26298*	c 07	NASA-CASE-ARC-10814-2				NASA-CASE-NPO-14477-1
				US-PATENT-CLASS-343-786				US-PATENT-APPL-SN-684045				US-PATENT-APPL-SN-951830
				US-PATENT-CLASS-343-895				US-PATENT-APPL-SN-831632				US-PATENT-CLASS-149-19.2
				US-PATENT-4,199,764				US-PATENT-CLASS-60-39.06				US-PATENT-CLASS-149-19.9
N80-23559*	c 33			NASA-CASE-NPO-13804-1				US-PATENT-CLASS-60-733				US-PATENT-CLASS-149-20
				US-PATENT-APPL-SN-766999				US-PATENT-CLASS-60-746				US-PATENT-4,210,474
				US-PATENT-CLASS-310-319				US-PATENT-4,204,402		N80-28578*	c 32	NASA-CASE-GSC-12365-1
				US-PATENT-CLASS-331-65				NASA-CASE-MFS-23626-1				US-PATENT-APPL-SN-039031
				US-PATENT-CLASS-340-602				US-PATENT-APPL-SN-941711				US-PATENT-CLASS-343-100SA
				US-PATENT-CLASS-340-604				US-PATENT-CLASS-156-212				US-PATENT-CLASS-343-844
				US-PATENT-4,197,530				US-PATENT-CLASS-156-213				US-PATENT-CLASS-343-854
N80-23653*	c 37			NASA-CASE-MSC-16938-1				US-PATENT-CLASS-156-285				US-PATENT-4,213,131
				US-PATENT-APPL-SN-938582				US-PATENT-CLASS-260-17.2		N80-28686*	c 35	NASA-CASE-LAR-11370-1
				US-PATENT-CLASS-151-41.76				US-PATENT-CLASS-264-118				US-PATENT-APPL-SN-940689
				US-PATENT-4,193,435				US-PATENT-CLASS-264-119				US-PATENT-CLASS-250-457
N80-23654*	c 37			NASA-CASE-NPO-14473-1				US-PATENT-CLASS-264-124				US-PATENT-CLASS-250-491
				US-PATENT-APPL-SN-938300				US-PATENT-4,204,899				US-PATENT-CLASS-250-513
				US-PATENT-CLASS-137-375		N80-26446*	c 27	NASA-CASE-MSC-16074-1				US-PATENT-4,213,051
				US-PATENT-CLASS-137-625.4				US-PATENT-APPL-SN-747674				US-PATENT-CLASS-12285-1
				US-PATENT-CLASS-251-138				US-PATENT-CLASS-204-159.15		N80-28687*	c 35	US-PATENT-APPL-SN-929087
				US-PATENT-CLASS-251-86				US-PATENT-CLASS-204-159.19				US-PATENT-CLASS-356-244
				US-PATENT-4,195,666				US-PATENT-CLASS-525-426				US-PATENT-CLASS-356-369
N80-23655*	c 37			NASA-CASE-GSC-12318-1				US-PATENT-CLASS-8-DIG.12				US-PATENT-4,210,401
				US-PATENT-APPL-SN-894213				US-PATENT-CLASS-8-DIG.18		N80-28711*	c 37	NASA-CASE-LEW-12119-1
				US-PATENT-CLASS-219-160				US-PATENT-CLASS-8-115.5				US-PATENT-APPL-SN-672219
				US-PATENT-CLASS-219-161				US-PATENT-4,203,723				US-PATENT-CLASS-277-153
				US-PATENT-CLASS-228-212		N80-26599*	c 33	NASA-CASE-FRC-10113-1				US-PATENT-CLASS-277-193
				US-PATENT-CLASS-228-222				US-PATENT-APPL-SN-885066				US-PATENT-CLASS-277-224
				US-PATENT-CLASS-228-44.1R				US-PATENT-CLASS-324-51				US-PATENT-4,212,477
				US-PATENT-CLASS-269-287				US-PATENT-4,204,154		N80-29539*	c 32	NASA-CASE-LAR-11745-1
				US-PATENT-4,196,840		N80-26635*	c 35	NASA-CASE-NPO-14372-1				US-PATENT-APPL-SN-799025
N80-23711*	c 43			NASA-CASE-MFS-23720-1				US-PATENT-APPL-SN-646333				US-PATENT-CLASS-343-786

N80-29583* #	c 33	US-PATENT-4,089,004	US-PATENT-APPL-SN-938293	US-PATENT-CLASS-260-898
		NASA-CASE-FRC-11055-1	US-PATENT-CLASS-333-12	US-PATENT-CLASS-260-901
N80-29703*	c 37	US-PATENT-APPL-SN-172098	US-PATENT-CLASS-333-252	US-PATENT-CLASS-521-27
		NASA-CASE-NPO-14406-1	US-PATENT-CLASS-333-99S	US-PATENT-CLASS-521-32
N80-29834*	c 44	US-PATENT-APPL-SN-951828	US-PATENT-4,215,327	US-PATENT-CLASS-521-62
		US-PATENT-CLASS-125-21	NASA-CASE-NPO-14424-1	US-PATENT-4,119,581
N80-29835*	c 44	US-PATENT-CLASS-83-820	NASA-CASE-NPO-14430-1	NASA-CASE-MSC-12631-3
		US-PATENT-4,191,159	US-PATENT-APPL-SN-918534	US-PATENT-APPL-SN-006952
N80-31790*	c 37	NASA-CASE-LAR-11551-1	US-PATENT-CLASS-324-62	US-PATENT-APPL-SN-56841
		US-PATENT-APPL-SN-883090	US-PATENT-CLASS-324-64	US-PATENT-APPL-SN-785279
N80-32244*	c 76	US-PATENT-CLASS-290-53	US-PATENT-4,218,650	US-PATENT-CLASS-156-154
		US-PATENT-CLASS-310-30	NASA-CASE-NPO-14430-1	US-PATENT-CLASS-156-160
N80-32245*	c 76	US-PATENT-4,191,893	US-PATENT-APPL-SN-931217	US-PATENT-CLASS-156-163
		NASA-CASE-NPO-13786-1	US-PATENT-CLASS-318-15	US-PATENT-CLASS-156-212
N80-32359*	c 04	US-PATENT-CLASS-148-1.5	US-PATENT-CLASS-74-425	US-PATENT-CLASS-156-267
		US-PATENT-CLASS-357-30	US-PATENT-CLASS-74-661	US-PATENT-CLASS-156-295
N80-32392*	c 07	US-PATENT-CLASS-357-52	US-PATENT-CLASS-74-665C	US-PATENT-CLASS-156-323
		US-PATENT-CLASS-357-91	US-PATENT-4,215,592	US-PATENT-CLASS-156-331
N80-32484*	c 26	US-PATENT-4,090,213	NASA-CASE-GSC-12289-1	US-PATENT-4,032,089
		NASA-CASE-LEW-12274-1	US-PATENT-APPL-SN-943086	US-PATENT-4,225,372
N80-32514*	c 27	US-PATENT-APPL-SN-950876	US-PATENT-CLASS-198-847	NASA-CASE-LAR-12054-2
		US-PATENT-CLASS-417-383	US-PATENT-CLASS-198-848	US-PATENT-APPL-SN-011737
N80-32515*	c 27	US-PATENT-CLASS-60-520	US-PATENT-CLASS-474-205	US-PATENT-APPL-SN-839963
		US-PATENT-4,215,548	US-PATENT-4,215,590	US-PATENT-CLASS-264-137
N80-32516*	c 27	NASA-CASE-NPO-14298-1	NASA-CASE-ARC-11258-1	US-PATENT-CLASS-427-385.5
		US-PATENT-APPL-SN-938579	US-PATENT-APPL-SN-185865	US-PATENT-CLASS-427-429
N80-32583*	c 31	US-PATENT-CLASS-156-DIG.96	NASA-CASE-LEW-12940-1	US-PATENT-CLASS-428-473.5
		US-PATENT-CLASS-422-246	US-PATENT-APPL-SN-953391	US-PATENT-4,166,170
N80-32604*	c 32	US-PATENT-4,216,186	US-PATENT-CLASS-313-231.4	US-PATENT-4,233,258
		NASA-CASE-NPO-14295-1	US-PATENT-CLASS-313-362	NASA-CASE-LEW-12081-3
N80-32605*	c 32	US-PATENT-CLASS-156-DIG.64	US-PATENT-4,218,633	US-PATENT-APPL-SN-009887
		US-PATENT-CLASS-156-DIG.88	NASA-CASE-MSC-18255-1	US-PATENT-APPL-SN-676432
		US-PATENT-CLASS-156-601	US-PATENT-APPL-SN-025163	US-PATENT-APPL-SN-837794
		US-PATENT-CLASS-156-617SP	US-PATENT-CLASS-250-347	US-PATENT-CLASS-149-1
		US-PATENT-4,217,165	US-PATENT-CLASS-250-352	US-PATENT-CLASS-156-344
		NASA-CASE-NPO-14173-1	US-PATENT-CLASS-250-353	US-PATENT-CLASS-423-648R
		US-PATENT-APPL-SN-938581	US-PATENT-CLASS-350-55	US-PATENT-CLASS-44-7R
		US-PATENT-CLASS-343-112R	US-PATENT-CLASS-356-72	US-PATENT-CLASS-55-2
		US-PATENT-4,215,345	US-PATENT-4,215,273	US-PATENT-CLASS-62-12
		NASA-CASE-ARC-10977-1	NASA-CASE-LEW-11930-3	US-PATENT-CLASS-62-18
		US-PATENT-APPL-SN-023436	US-PATENT-APPL-SN-513611	US-PATENT-CLASS-62-40
		US-PATENT-CLASS-239-127.3	US-PATENT-APPL-SN-616528	US-PATENT-CLASS-62-47
		US-PATENT-CLASS-239-265.33	US-PATENT-APPL-SN-764245	US-PATENT-4,077,788
		US-PATENT-CLASS-60-264	US-PATENT-CLASS-75-200	US-PATENT-4,193,827
		US-PATENT-4,214,703	US-PATENT-CLASS-75-222	US-PATENT-4,229,196
		NASA-CASE-LEW-12542-3	US-PATENT-4,214,905	NASA-CASE-KSC-11064-1
		US-PATENT-APPL-SN-007083	NASA-CASE-MFS-25535-1	US-PATENT-APPL-SN-897840
		US-PATENT-APPL-SN-803822	US-PATENT-APPL-SN-199765	US-PATENT-CLASS-169-62
		US-PATENT-CLASS-75-124	NASA-CASE-LEW-12806-2	US-PATENT-CLASS-169-70
		US-PATENT-4,214,902	US-PATENT-APPL-SN-065676	US-PATENT-4,219,084
		NASA-CASE-NPO-13137-1	US-PATENT-APPL-SN-915050	NASA-CASE-NPO-14536-1
		US-PATENT-APPL-SN-332123	US-PATENT-CLASS-136-249	US-PATENT-APPL-SN-974471
		US-PATENT-APPL-SN-374810	US-PATENT-CLASS-136-291	US-PATENT-CLASS-343-100TD
		US-PATENT-CLASS-568-852	US-PATENT-CLASS-363-147	US-PATENT-4,233,606
		US-PATENT-CLASS-568-861	US-PATENT-CLASS-363-27	NASA-CASE-NPO-14749-1
		US-PATENT-4,118,427	US-PATENT-CLASS-363-60	US-PATENT-APPL-SN-078521
		NASA-CASE-NPO-13899-1	US-PATENT-4,217,633	US-PATENT-CLASS-375-107
		US-PATENT-APPL-SN-761252	NASA-CASE-ARC-11174-1	US-PATENT-CLASS-455-51
		US-PATENT-APPL-SN-933186	US-PATENT-APPL-SN-929086	US-PATENT-CLASS-455-619
		US-PATENT-CLASS-260-346.3	US-PATENT-CLASS-260-17.2	US-PATENT-CLASS-455-71
		US-PATENT-4,196,129	US-PATENT-CLASS-428-114	US-PATENT-4,234,971
		NASA-CASE-LEW-13103-1	US-PATENT-CLASS-428-528	NASA-CASE-MSC-16800-1
		US-PATENT-APPL-SN-971596	US-PATENT-CLASS-428-541	US-PATENT-APPL-SN-953313
		US-PATENT-CLASS-156-272	US-PATENT-CLASS-428-921	US-PATENT-CLASS-343-727
		US-PATENT-CLASS-156-292	US-PATENT-4,209,561	US-PATENT-CLASS-343-789
		US-PATENT-CLASS-204-159.11	NASA-CASE-LAR-12065-1	US-PATENT-CLASS-343-797
		US-PATENT-CLASS-204-159.14	US-PATENT-APPL-SN-889671	US-PATENT-4,218,685
		US-PATENT-CLASS-264-212	US-PATENT-CLASS-156-330	NASA-CASE-NPO-14163-1
		US-PATENT-CLASS-264-22	US-PATENT-CLASS-428-113	US-PATENT-APPL-SN-878541
		US-PATENT-CLASS-427-44	US-PATENT-CLASS-428-114	US-PATENT-CLASS-363-56
		US-PATENT-CLASS-428-500	US-PATENT-CLASS-428-140	US-PATENT-CLASS-363-71
		US-PATENT-CLASS-429-139	US-PATENT-CLASS-428-413	US-PATENT-CLASS-363-78
		US-PATENT-4,218,280	US-PATENT-CLASS-428-480	US-PATENT-4,222,098
		NASA-CASE-GSC-12191-1	US-PATENT-CLASS-428-902	NASA-CASE-GSC-12411-1
		US-PATENT-APPL-SN-009886	US-PATENT-4,229,473	US-PATENT-APPL-SN-965367
		US-PATENT-CLASS-165-16	NASA-CASE-NPO-14143-1	US-PATENT-CLASS-340-309.4
		US-PATENT-CLASS-236-13	US-PATENT-APPL-SN-938297	US-PATENT-CLASS-340-310A
		US-PATENT-CLASS-236-44C	US-PATENT-CLASS-250-343	US-PATENT-CLASS-340-310R
		US-PATENT-CLASS-236-49	US-PATENT-CLASS-356-437	US-PATENT-CLASS-340-870.24
		US-PATENT-4,210,278	US-PATENT-4,234,258	US-PATENT-CLASS-368-47
		NASA-CASE-NPO-14191-1	NASA-CASE-ARC-11241-1	US-PATENT-CLASS-370-85
		US-PATENT-APPL-SN-830846	US-PATENT-APPL-SN-037066	US-PATENT-4,228,422
		US-PATENT-CLASS-181-102	US-PATENT-CLASS-260-33.8F	NASA-CASE-NPO-14513-1
		US-PATENT-CLASS-367-27	US-PATENT-CLASS-528-362	US-PATENT-APPL-SN-025162
		US-PATENT-CLASS-367-36	US-PATENT-CLASS-528-401	US-PATENT-CLASS-165-105
		US-PATENT-CLASS-367-57	US-PATENT-CLASS-528-422	US-PATENT-CLASS-62-514R
		US-PATENT-4,214,226	US-PATENT-4,234,715	US-PATENT-4,218,892
		NASA-CASE-MSC-18334-1	NASA-CASE-NPO-14001-1	NASA-CASE-MSC-16973-1
		US-PATENT-APPL-SN-051270	US-PATENT-APPL-SN-771245	US-PATENT-APPL-SN-969756
		US-PATENT-CLASS-343-700MS	US-PATENT-CLASS-210-24R	US-PATENT-CLASS-150-111
		US-PATENT-CLASS-343-830	US-PATENT-CLASS-260-17A	US-PATENT-CLASS-156-294
		US-PATENT-4,218,682	US-PATENT-CLASS-260-2.1E	US-PATENT-CLASS-52-232
		NASA-CASE-NPO-14253-1	US-PATENT-CLASS-260-858	US-PATENT-CLASS-52-743
		NASA-CASE-NPO-14640-1	US-PATENT-CLASS-260-886	US-PATENT-4,235,060
			US-PATENT-CLASS-260-8900	NASA-CASE-NPO-14220-1
			US-PATENT-CLASS-260-895	US-PATENT-APPL-SN-907421

		US-PATENT-CLASS-60-518				US-PATENT-CLASS-375-1				US-PATENT-CLASS-333-204
		US-PATENT-CLASS-74-417				US-PATENT-CLASS-375-115				US-PATENT-4,227,096
		US-PATENT-4,228,656				US-PATENT-CLASS-375-58				NASA-CASE-MSC-16747-1
N81-14319*	c 37	NASA-CASE-LAR-11855-1				US-PATENT-4,221,005	N81-17349*	c 33		US-PATENT-APPL-SN-974475
		US-PATENT-APPL-SN-953314				NASA-CASE-NPO-14444-1				US-PATENT-CLASS-328-134
		US-PATENT-CLASS-407-117				US-PATENT-APPL-SN-017890				US-PATENT-CLASS-328-37
		US-PATENT-CLASS-407-85				US-PATENT-CLASS-332-22				US-PATENT-CLASS-328-55
		US-PATENT-CLASS-408-1R				US-PATENT-CLASS-332-23R				US-PATENT-CLASS-331-48
		US-PATENT-CLASS-82-1.2				US-PATENT-CLASS-375-54				US-PATENT-4,241,308
		US-PATENT-CLASS-82-1C				US-PATENT-CLASS-375-67	N81-17432*	c 37		NASA-CASE-NPO-14388-1
		US-PATENT-CLASS-82-36R				US-PATENT-CLASS-455-102				US-PATENT-APPL-SN-008208
		US-PATENT-4,218,941				US-PATENT-4,216,542				US-PATENT-CLASS-60-518
N81-14320*	c 37	NASA-CASE-GSC-12429-1				NASA-CASE-MSC-18134-1				US-PATENT-CLASS-74-417
		US-PATENT-APPL-SN-009888				US-PATENT-APPL-SN-974472				US-PATENT-4,240,256
		US-PATENT-CLASS-244-161				US-PATENT-CLASS-277-181	N81-17433*	c 37		NASA-CASE-ARC-11251-1
		US-PATENT-CLASS-294-106				US-PATENT-CLASS-277-229				US-PATENT-APPL-SN-057465
		US-PATENT-CLASS-414-1				US-PATENT-4,219,203				US-PATENT-CLASS-128-DIG.20
		US-PATENT-4,219,171				NASA-CASE-NPO-14170-1				US-PATENT-CLASS-137-549
N81-14389*	c 44	NASA-CASE-NPO-14416-1				US-PATENT-APPL-SN-860404				US-PATENT-CLASS-137-886
		US-PATENT-APPL-SN-014664				US-PATENT-CLASS-188-134				US-PATENT-CLASS-137-887
		US-PATENT-CLASS-29-DIG.1				US-PATENT-CLASS-188-180				US-PATENT-CLASS-251-216
		US-PATENT-CLASS-29-832				US-PATENT-CLASS-188-184				US-PATENT-CLASS-251-339
		US-PATENT-4,219,926				US-PATENT-CLASS-244-173				US-PATENT-4,239,057
N81-14605*	c 51	NASA-CASE-ARC-11114-1				US-PATENT-4,219,107	N81-17499*	c 43		NASA-CASE-FRC-11013-1
		US-PATENT-APPL-SN-951422				NASA-CASE-NPO-14162-1				US-PATENT-APPL-SN-043912
		US-PATENT-CLASS-128-DIG.12				NASA-CASE-NPO-14167-1				US-PATENT-CLASS-244-160
		US-PATENT-CLASS-128-DIG.16				NASA-CASE-NPO-14169-1				US-PATENT-CLASS-244-49
		US-PATENT-CLASS-128-DIG.26				US-PATENT-APPL-SN-893903				US-PATENT-4,240,601
		US-PATENT-CLASS-128-DIG.6				US-PATENT-CLASS-307-219	N81-17518*	c 44		NASA-CASE-NPO-14619-1
		US-PATENT-CLASS-128-DIG.9				US-PATENT-CLASS-307-225R				US-PATENT-APPL-SN-027559
		US-PATENT-CLASS-128-204.18				US-PATENT-CLASS-307-269				US-PATENT-CLASS-126-419
		US-PATENT-CLASS-128-207.14				US-PATENT-CLASS-307-291				US-PATENT-CLASS-60-524
		US-PATENT-CLASS-128-207.28				US-PATENT-CLASS-328-192				US-PATENT-CLASS-60-641
		US-PATENT-CLASS-128-236				US-PATENT-CLASS-328-48				US-PATENT-4,236,383
		US-PATENT-4,212,297				US-PATENT-CLASS-328-71	N81-17886*	c 74		NASA-CASE-NPO-14219-1
N81-14612*	c 52	NASA-CASE-ARC-11117-1				US-PATENT-4,213,064				US-PATENT-APPL-SN-888432
		US-PATENT-APPL-SN-003693				NASA-CASE-MFS-25050-1				US-PATENT-CLASS-350-301
		US-PATENT-CLASS-128-642				US-PATENT-APPL-SN-057466				US-PATENT-CLASS-354-118
		US-PATENT-4,219,027				US-PATENT-CLASS-308-10				US-PATENT-CLASS-362-11
N81-14613*	c 52	NASA-CASE-ARC-11118-2				US-PATENT-CLASS-73-505				US-PATENT-CLASS-362-241
		US-PATENT-APPL-SN-850504				US-PATENT-4,218,921				US-PATENT-4,213,684
		US-PATENT-APPL-SN-974476				NASA-CASE-LEW-23169-2	N81-17887*	c 74		NASA-CASE-NPO-14657-1
		US-PATENT-CLASS-424-274				US-PATENT-APPL-SN-191746				US-PATENT-APPL-SN-008211
		US-PATENT-4,230,717				NASA-CASE-FRC-11029-1				US-PATENT-CLASS-356-432
N81-14968*	c 02	NASA-CASE-LAR-12326-1				US-PATENT-APPL-SN-164617				US-PATENT-CLASS-73-15R
		US-PATENT-APPL-SN-019541				US-PATENT-CLASS-73-147				US-PATENT-4,243,327
		US-PATENT-CLASS-102-56R				US-PATENT-CLASS-73-178R	N81-17888*	c 74		NASA-CASE-NPO-14502-1
		US-PATENT-CLASS-102-92.1				US-PATENT-4,240,290				US-PATENT-APPL-SN-965368
		US-PATENT-CLASS-244-119				NASA-CASE-LEW-12493-1				US-PATENT-CLASS-356-345
		US-PATENT-CLASS-244-130				US-PATENT-APPL-SN-893857				US-PATENT-CLASS-356-352
		US-PATENT-4,225,102				US-PATENT-CLASS-156-292				US-PATENT-CLASS-356-358
N81-14999*	c 07	NASA-CASE-LEW-13201-1				US-PATENT-CLASS-228-118				US-PATENT-4,243,323
		US-PATENT-APPL-SN-038980				US-PATENT-CLASS-228-170	N81-19087*	c 05		NASA-CASE-LAR-11797-1
		US-PATENT-CLASS-137-15.1				US-PATENT-CLASS-228-174				US-PATENT-APPL-SN-969755
		US-PATENT-CLASS-181-214				US-PATENT-CLASS-228-190				US-PATENT-CLASS-244-17.25
		US-PATENT-4,220,171				US-PATENT-4,211,354				US-PATENT-CLASS-416-114
N81-15104*	c 27	NASA-CASE-NPO-10830-1				NASA-CASE-NPO-13530-1				US-PATENT-CLASS-416-500
		US-PATENT-APPL-SN-825489				US-PATENT-CLASS-210-500M				US-PATENT-CLASS-74-519
		US-PATENT-CLASS-117-6				US-PATENT-CLASS-260-2.1				US-PATENT-4,245,956
		US-PATENT-CLASS-138.8R				US-PATENT-CLASS-260-2.2R	N81-19115*	c 07		NASA-CASE-LEW-12907-2
		US-PATENT-CLASS-260-33.6UB				US-PATENT-4,014,798				US-PATENT-APPL-SN-752050
		US-PATENT-CLASS-33.8UB				NASA-CASE-ARC-11248-1				US-PATENT-APPL-SN-909235
		US-PATENT-CLASS-37N				US-PATENT-APPL-SN-028300				US-PATENT-CLASS-364-106
		US-PATENT-CLASS-41R				US-PATENT-CLASS-528-362				US-PATENT-CLASS-364-431
		US-PATENT-CLASS-77.5AQ				US-PATENT-CLASS-528-401				US-PATENT-CLASS-60-39.24
		US-PATENT-CLASS-77.5CH				US-PATENT-CLASS-528-422				US-PATENT-4,249,238
		US-PATENT-CLASS-859R				US-PATENT-CLASS-528-423	N81-19116*	c 07		NASA-CASE-LEW-12594-2
		US-PATENT-CLASS-94.9N				US-PATENT-4,242,498				US-PATENT-APPL-SN-741056
		US-PATENT-3,655,814				NASA-CASE-LEW-13226-1				US-PATENT-APPL-SN-909608
N81-15119*	c 28	NASA-CASE-NPO-14110-1				US-PATENT-APPL-SN-070771				US-PATENT-CLASS-60-226R
		US-PATENT-APPL-SN-947000				US-PATENT-CLASS-260-326N				US-PATENT-CLASS-60-236
		US-PATENT-CLASS-149-108.4				US-PATENT-CLASS-260-326S				US-PATENT-CLASS-60-238
		US-PATENT-CLASS-23-293R				US-PATENT-CLASS-260-37EP				US-PATENT-CLASS-60-239
		US-PATENT-CLASS-252-384				US-PATENT-CLASS-528-118				US-PATENT-4,242,864
		US-PATENT-CLASS-260-96D				US-PATENT-CLASS-528-322	N81-19130*	c 08		NASA-CASE-LAR-11970-2
		US-PATENT-CLASS-423-1				US-PATENT-CLASS-538-117				US-PATENT-APPL-SN-034104
		US-PATENT-CLASS-423-131				US-PATENT-4,244,857				US-PATENT-APPL-SN-727503
		US-PATENT-CLASS-423-658.5				NASA-CASE-NPO-14315-1				US-PATENT-CLASS-244-12.5
		US-PATENT-CLASS-525-384				US-PATENT-APPL-SN-900659				US-PATENT-CLASS-244-52
		US-PATENT-CLASS-526-914				US-PATENT-CLASS-201-10				US-PATENT-CLASS-244-87
		US-PATENT-CLASS-75-25				US-PATENT-CLASS-201-25				US-PATENT-4,236,684
		US-PATENT-4,229,182				US-PATENT-CLASS-201-8	N81-19242*	c 25		NASA-CASE-MFS-25000-1
N81-15154*	c 31	NASA-CASE-NPO-13758-2				US-PATENT-CLASS-44-50				US-PATENT-APPL-SN-974474
		US-PATENT-APPL-SN-623389				US-PATENT-CLASS-44-62				US-PATENT-CLASS-260-29.6RB
		US-PATENT-APPL-SN-727444				US-PATENT-4,246,001				US-PATENT-CLASS-526-201
		US-PATENT-CLASS-110-218				NASA-CASE-ARC-11253-1				US-PATENT-CLASS-526-88
		US-PATENT-CLASS-110-229				US-PATENT-APPL-SN-028301				US-PATENT-4,247,434
		US-PATENT-CLASS-110-232				US-PATENT-CLASS-528-310	N81-19244*	c 25		NASA-CASE-NPO-13309-1
		US-PATENT-CLASS-110-343				US-PATENT-CLASS-528-362				US-PATENT-APPL-SN-363130
		US-PATENT-CLASS-110-347				US-PATENT-CLASS-528-401				US-PATENT-CLASS-210-24
		US-PATENT-CLASS-202-118				US-PATENT-CLASS-528-422				US-PATENT-CLASS-260-2.1E
		US-PATENT-CLASS-264-23				US-PATENT-4,245,085				US-PATENT-CLASS-260-2.2R
		US-PATENT-CLASS-425-378R				NASA-CASE-MFS-23845-1				US-PATENT-CLASS-264-41
		US-PATENT-4,206,713				US-PATENT-APPL-SN-938298				US-PATENT-3,944,485
N81-15179*	c 32	NASA-CASE-MSC-18035-1				US-PATENT-CLASS-307-233R	N81-19296*	c 27		NASA-CASE-LEW-12933-1
		US-PATENT-APPL-SN-041142				US-PATENT-CLASS-307-306				US-PATENT-APPL-SN-027557

		US-PATENT-CLASS-260-33.4R	N81-22360* #	c 37	NASA-CASE-LEW-12445-1	US-PATENT-CLASS-422-3
		US-PATENT-CLASS-427-221			US-PATENT-APPL-SN-238887	US-PATENT-CLASS-422-30
		US-PATENT-CLASS-427-379	N81-24106*	c 08	NASA-CASE-LAR-12268-1	US-PATENT-CLASS-422-34
		US-PATENT-CLASS-528-353			US-PATENT-APPL-SN-015996	US-PATENT-4,250,143
N81-19343*	c 31	US-PATENT-4,244,853			US-PATENT-CLASS-244-181	NASA-CASE-KSC-11048-1
		NASA-CASE-GSC-12513-1			US-PATENT-CLASS-244-195	US-PATENT-APPL-SN-023437
		US-PATENT-APPL-SN-053571			US-PATENT-CLASS-318-584	US-PATENT-CLASS-364-200
		US-PATENT-CLASS-109-49.5			US-PATENT-CLASS-364-434	US-PATENT-4,254,464
		US-PATENT-CLASS-109-58.5			US-PATENT-4,261,537	NASA-CASE-GSC-12528-1
		US-PATENT-CLASS-220-82R	N81-24256*	c 27	NASA-CASE-ARC-11253-3	US-PATENT-APPL-SN-111439
		US-PATENT-CLASS-220-89A			US-PATENT-APPL-SN-028301	US-PATENT-CLASS-250-368
		US-PATENT-CLASS-49-171			US-PATENT-APPL-SN-145283	US-PATENT-CLASS-250-483
		US-PATENT-4,245,566			US-PATENT-CLASS-260-465.5R	US-PATENT-4,262,206
N81-19389*	c 33	NASA-CASE-NPO-14297-1			US-PATENT-CLASS-528-310	NASA-CASE-NPO-15102-1
		US-PATENT-APPL-SN-938299			US-PATENT-CLASS-564-229	US-PATENT-APPL-SN-154726
		US-PATENT-CLASS-156-DIG.96			US-PATENT-4,269,787	US-PATENT-CLASS-250-350
		US-PATENT-CLASS-156-608	N81-24257*	c 27	NASA-CASE-LEW-13135-2	US-PATENT-CLASS-356-432
		US-PATENT-CLASS-219-10.49R			US-PATENT-APPL-SN-113014	US-PATENT-4,253,769
		US-PATENT-CLASS-219-10.67			US-PATENT-APPL-SN-971475	NASA-CASE-LEW-13088-1
		US-PATENT-CLASS-422-246			US-PATENT-CLASS-264-104	US-PATENT-APPL-SN-089779
		US-PATENT-CLASS-422-249			US-PATENT-CLASS-264-105	US-PATENT-CLASS-428-471
		US-PATENT-CLASS-432-264			US-PATENT-CLASS-429-139	US-PATENT-CLASS-428-632
		US-PATENT-4,242,553			US-PATENT-CLASS-429-249	US-PATENT-CLASS-428-678
N81-19392*	c 33	NASA-CASE-GSC-12360-1			US-PATENT-CLASS-429-253	US-PATENT-CLASS-428-679
		US-PATENT-APPL-SN-041164			US-PATENT-CLASS-429-27	US-PATENT-CLASS-428-680
		US-PATENT-CLASS-363-101			US-PATENT-CLASS-429-28	US-PATENT-4,255,495
		US-PATENT-CLASS-363-21			US-PATENT-CLASS-525-61	NASA-CASE-MSC-18107-1
		US-PATENT-4,245,286			US-PATENT-4,262,067	US-PATENT-APPL-SN-956168
N81-19393*	c 33	NASA-CASE-NPO-14505-1	N81-24258*	c 27	NASA-CASE-NPO-10424-1	US-PATENT-CLASS-430-271
		US-PATENT-APPL-SN-956166			US-PATENT-APPL-SN-692636	US-PATENT-CLASS-430-325
		US-PATENT-CLASS-363-21			US-PATENT-CLASS-260-37	US-PATENT-CLASS-430-329
		US-PATENT-CLASS-363-36			US-PATENT-3,651,008	US-PATENT-CLASS-430-330
		US-PATENT-CLASS-363-40			NASA-CASE-MSC-16394-1	US-PATENT-4,262,080
		US-PATENT-CLASS-363-47	N81-24280*	c 28	US-PATENT-APPL-SN-161255	NASA-CASE-LAR-12095-1
		US-PATENT-4,245,288			US-PATENT-CLASS-204-129	US-PATENT-APPL-SN-811401
N81-19426*	c 35	NASA-CASE-MFS-23923-1			US-PATENT-CLASS-204-252	US-PATENT-CLASS-244-158R
		US-PATENT-APPL-SN-053569			US-PATENT-CLASS-204-266	US-PATENT-CLASS-403-171
		US-PATENT-CLASS-73-190R			US-PATENT-CLASS-204-290F	US-PATENT-CLASS-428-902
		US-PATENT-4,248,083			US-PATENT-CLASS-204-290R	US-PATENT-CLASS-52-309.1
N81-19427*	c 35	NASA-CASE-MSC-16370-1			US-PATENT-CLASS-204-291	US-PATENT-CLASS-52-648
		US-PATENT-APPL-SN-061556			US-PATENT-4,263,112	US-PATENT-CLASS-52-726
		US-PATENT-CLASS-329-107	N81-24338*	c 33	NASA-CASE-NPO-14617-1	US-PATENT-4,259,821
		US-PATENT-CLASS-329-50			US-PATENT-APPL-SN-051269	NASA-CASE-LAR-12077-1
		US-PATENT-CLASS-375-1			US-PATENT-CLASS-330-8	US-PATENT-APPL-SN-014663
		US-PATENT-CLASS-375-104			US-PATENT-4,262,259	US-PATENT-CLASS-52-645
		US-PATENT-CLASS-375-34	N81-24422*	c 36	NASA-CASE-LAR-12177-1	US-PATENT-4,259,825
		US-PATENT-CLASS-375-99			US-PATENT-APPL-SN-027558	NASA-CASE-NPO-14588-1
		US-PATENT-4,241,312			US-PATENT-CLASS-356-28.5	US-PATENT-APPL-SN-008209
N81-19455*	c 37	NASA-CASE-LEW-12982-1			US-PATENT-CLASS-356-356	US-PATENT-CLASS-343-755
		US-PATENT-APPL-SN-929084			US-PATENT-CLASS-356-358	US-PATENT-CLASS-343-772
		US-PATENT-CLASS-204-192E			US-PATENT-4,255,048	US-PATENT-CLASS-343-781R
		US-PATENT-CLASS-228-116	N81-24442*	c 37	NASA-CASE-LEW-12991-1	US-PATENT-CLASS-343-786
		US-PATENT-CLASS-228-205			US-PATENT-APPL-SN-961832	US-PATENT-4,258,366
		US-PATENT-4,245,768			US-PATENT-CLASS-277-96	NASA-CASE-GSC-12399-1
N81-19558*	c 44	NASA-CASE-NPO-14670-1			US-PATENT-4,260,166	US-PATENT-APPL-SN-961831
		US-PATENT-APPL-SN-043941	N81-24443*	c 37	NASA-CASE-LAR-11695-2	US-PATENT-CLASS-70-58
		US-PATENT-CLASS-136-258			US-PATENT-APPL-SN-103836	US-PATENT-4,252,007
		US-PATENT-CLASS-252-62.3E			US-PATENT-APPL-SN-893865	NASA-CASE-NPO-14221-1
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-152-330RF	US-PATENT-APPL-SN-907431
		US-PATENT-CLASS-357-59			US-PATENT-CLASS-152-353G	US-PATENT-CLASS-60-517
		US-PATENT-CLASS-357-63			US-PATENT-CLASS-152-353R	US-PATENT-CLASS-60-525
		US-PATENT-4,249,957			US-PATENT-CLASS-152-379.4	US-PATENT-4,255,929
N81-19896*	c 74	NASA-CASE-NPO-11337-1			US-PATENT-CLASS-244-103R	NASA-CASE-NPO-13823-1
		NASA-CASE-NPO-11575-1			US-PATENT-CLASS-244-130	US-PATENT-APPL-SN-658487
		US-PATENT-APPL-SN-090584			US-PATENT-4,267,992	US-PATENT-CLASS-106-43
		US-PATENT-APPL-SN-276599	N81-24519*	c 44	NASA-CASE-LEW-12441-3	US-PATENT-CLASS-264-332
		US-PATENT-CLASS-340-146.3H			US-PATENT-APPL-SN-032307	US-PATENT-4,252,768
		US-PATENT-CLASS-340-146.3S			US-PATENT-APPL-SN-856462	NASA-CASE-NPO-14363-1
		US-PATENT-CLASS-340-146.3Y			US-PATENT-CLASS-239-127.1	US-PATENT-APPL-SN-969760
		US-PATENT-3,845,466			US-PATENT-CLASS-60-204	US-PATENT-CLASS-356-213
N81-19898*	c 74	NASA-CASE-NPO-12087-1			US-PATENT-CLASS-60-267	US-PATENT-CLASS-356-216
		US-PATENT-APPL-SN-095217			US-PATENT-4,199,937	US-PATENT-CLASS-356-234
		US-PATENT-CLASS-250-83.6R			US-PATENT-4,245,469	US-PATENT-CLASS-356-32
		US-PATENT-3,704,284	N81-24520*	c 44	NASA-CASE-MFS-23999-1	US-PATENT-4,252,440
N81-20352* #	c 33	NASA-CASE-NPO-13970-1			US-PATENT-APPL-SN-060435	NASA-CASE-MFS-23717-1
		US-PATENT-APPL-SN-023484			US-PATENT-CLASS-250-203R	US-PATENT-APPL-SN-950877
		US-PATENT-CLASS-318-138			US-PATENT-CLASS-250-209	US-PATENT-CLASS-128-DIG.25
		US-PATENT-CLASS-318-254			US-PATENT-4,262,195	US-PATENT-CLASS-128-1R
		US-PATENT-CLASS-318-439			NASA-CASE-LEW-12918-1	US-PATENT-CLASS-128-346
		US-PATENT-4,249,116	N81-24521*	c 44	US-PATENT-APPL-SN-134855	US-PATENT-CLASS-137-493
N81-20703*	c 52	NASA-CASE-NPO-14329-1			US-PATENT-CLASS-429-120	US-PATENT-4,256,093
		US-PATENT-APPL-SN-044432			US-PATENT-CLASS-429-160	NASA-CASE-GSC-12082-2
		US-PATENT-CLASS-128-642			US-PATENT-CLASS-429-164	US-PATENT-APPL-SN-676958
		US-PATENT-CLASS-128-774			US-PATENT-CLASS-429-94	US-PATENT-APPL-SN-798976
		US-PATENT-CLASS-73-141A			US-PATENT-4,262,064	US-PATENT-CLASS-128-80F
		US-PATENT-4,249,417	N81-24711*	c 52	NASA-CASE-MSC-16433-1	US-PATENT-4,252,111
N81-21047*	c 04	NASA-CASE-ARC-11257-1			US-PATENT-APPL-SN-910992	NASA-CASE-ARC-11167-1
		US-PATENT-APPL-SN-078611			US-PATENT-CLASS-128-295	US-PATENT-APPL-SN-057526
		US-PATENT-CLASS-73-178R			US-PATENT-CLASS-128-761	US-PATENT-CLASS-128-89R
		US-PATENT-CLASS-73-490			US-PATENT-CLASS-4-144.3	US-PATENT-4,261,349
		US-PATENT-CLASS-73-504			US-PATENT-4,246,901	NASA-CASE-KSC-11042-2
		US-PATENT-4,244,215	N81-24724*	c 54	NASA-CASE-KSC-11085-1	US-PATENT-APPL-SN-154663
N81-22280* #	c 33	NASA-CASE-MFS-24368-3			US-PATENT-APPL-SN-046739	NASA-CASE-LAR-12406-1
		US-PATENT-APPL-SN-243683			US-PATENT-CLASS-261-79A	US-PATENT-APPL-SN-008210
N81-22344* #	c 36	NASA-CASE-GSC-12609-1			US-PATENT-CLASS-422-109	US-PATENT-CLASS-165-104.14
		US-PATENT-APPL-SN-218586			US-PATENT-CLASS-422-27	US-PATENT-CLASS-244-117A

				US-PATENT-CLASS-244-163				US-PATENT-CLASS-528-6				US-PATENT-APPL-SN-102002
				US-PATENT-CLASS-60-259				US-PATENT-4,276,403				US-PATENT-CLASS-364-453
				US-PATENT-CLASS-60-267	N81-27272*	c 27		NASA-CASE-ARC-11321-1				US-PATENT-CLASS-364-566
				US-PATENT-CLASS-60-730				US-PATENT-APPL-SN-175452				US-PATENT-CLASS-73-178R
				US-PATENT-CLASS-62-DIG.5				US-PATENT-CLASS-428-260				US-PATENT-CLASS-73-510
				US-PATENT-4,273,304				US-PATENT-CLASS-428-367				US-PATENT-4,281,384
N81-26152*	c 08			NASA-CASE-LAR-12562-1				US-PATENT-CLASS-428-408	N81-29160*	c 23		NASA-CASE-LEW-13101-2
				US-PATENT-APPL-SN-015995				US-PATENT-CLASS-428-902				US-PATENT-APPL-SN-145271-1
				US-PATENT-CLASS-244-181				US-PATENT-CLASS-428-920				US-PATENT-APPL-SN-971473
				US-PATENT-CLASS-244-182				US-PATENT-CLASS-526-262				US-PATENT-CLASS-260-17.4UC
				US-PATENT-4,266,743				US-PATENT-CLASS-528-228				US-PATENT-CLASS-264-104
N81-26161*	c 14			NASA-CASE-LAR-12250-1				US-PATENT-4,276,344				US-PATENT-CLASS-428-139
				US-PATENT-APPL-SN-910794	N81-27323*	c 31		NASA-CASE-MSC-16217-1				US-PATENT-CLASS-429-249
				US-PATENT-CLASS-244-160				US-PATENT-APPL-SN-893383				US-PATENT-CLASS-429-253
				US-PATENT-CLASS-244-2				US-PATENT-CLASS-52-108				US-PATENT-CLASS-429-27
				US-PATENT-CLASS-244-63				US-PATENT-CLASS-52-745				US-PATENT-CLASS-429-28
				US-PATENT-4,265,416				US-PATENT-4,237,662				US-PATENT-CLASS-525-56
N81-26179*	c 24			NASA-CASE-LEW-12493-2	N81-27324*	c 31		NASA-CASE-LAR-12195-1				US-PATENT-CLASS-525-61
				US-PATENT-APPL-SN-122967				US-PATENT-APPL-SN-946991				US-PATENT-4,272,470
				US-PATENT-APPL-SN-893857				US-PATENT-CLASS-182-62.5	N81-29163*	c 24		NASA-CASE-MFS-23674-1
				US-PATENT-CLASS-228-118				US-PATENT-CLASS-212-267				US-PATENT-APPL-SN-912276
				US-PATENT-CLASS-228-190				US-PATENT-CLASS-52-111				US-PATENT-CLASS-156-161
				US-PATENT-4,211,354				US-PATENT-CLASS-52-632				US-PATENT-CLASS-156-165
				US-PATENT-4,267,953				US-PATENT-4,238,911				US-PATENT-CLASS-156-285
N81-26358*	c 33			NASA-CASE-LAR-12196-1	N81-27341*	c 32		NASA-CASE-GSC-12147-1				US-PATENT-CLASS-156-294
				US-PATENT-APPL-SN-017887				US-PATENT-APPL-SN-780873				US-PATENT-CLASS-156-74
				US-PATENT-CLASS-343-100PE				US-PATENT-CLASS-343-112R				US-PATENT-CLASS-264-229
				US-PATENT-4,264,908				US-PATENT-4,276,553				US-PATENT-CLASS-264-231
N81-26359*	c 33			NASA-CASE-KSC-11065-1	N81-27395*	c 33		NASA-CASE-MFS-23988-1				US-PATENT-CLASS-264-258
				US-PATENT-APPL-SN-051271				US-PATENT-APPL-SN-044431				US-PATENT-CLASS-264-259
				US-PATENT-CLASS-324-51				US-PATENT-CLASS-307-252UA				US-PATENT-CLASS-264-311
				US-PATENT-CLASS-324-73AT				US-PATENT-CLASS-318-799				US-PATENT-CLASS-74-572
				US-PATENT-CLASS-371-20				US-PATENT-CLASS-318-810				US-PATENT-4,190,626
				US-PATENT-CLASS-371-25				US-PATENT-4,266,177	N81-29229*	c 27		NASA-CASE-LAR-12642-1
				US-PATENT-4,267,594	N81-27396*	c 33		NASA-CASE-NPO-14426-1				US-PATENT-APPL-SN-092141
N81-26360*	c 33			NASA-CASE-GSC-12515-1				US-PATENT-APPL-SN-009889				US-PATENT-CLASS-264-137
				US-PATENT-APPL-SN-172727				US-PATENT-CLASS-307-352				US-PATENT-CLASS-428-473.5
				US-PATENT-CLASS-148-1.5				US-PATENT-CLASS-307-353				US-PATENT-CLASS-528-222
				US-PATENT-CLASS-148-187				US-PATENT-CLASS-328-151				US-PATENT-CLASS-528-229
				US-PATENT-CLASS-156-647				US-PATENT-4,262,258				US-PATENT-4,281,102
				US-PATENT-CLASS-156-648	N81-27397*	c 33		NASA-CASE-MSC-12745-1	N81-29308*	c 32		NASA-CASE-NPO-14641-1
				US-PATENT-CLASS-156-649				US-PATENT-APPL-SN-746579				US-PATENT-APPL-SN-076643
				US-PATENT-CLASS-29-571				US-PATENT-CLASS-179-78				US-PATENT-CLASS-343-100CL
				US-PATENT-CLASS-29-578				US-PATENT-CLASS-333-12				US-PATENT-CLASS-455-278
				US-PATENT-CLASS-29-580				US-PATENT-CLASS-361-56				US-PATENT-4,276,978
				US-PATENT-CLASS-357-23				US-PATENT-CLASS-361-91	N81-29342*	c 33		NASA-CASE-GSC-12111-2
				US-PATENT-CLASS-357-55				US-PATENT-4,264,940				US-PATENT-APPL-SN-678813
				US-PATENT-CLASS-357-60	N81-27519*	c 37		NASA-CASE-NPO-14521-1				US-PATENT-APPL-SN-830272
				US-PATENT-CLASS-357-91				US-PATENT-APPL-SN-023439				US-PATENT-CLASS-350-96.25
				US-PATENT-4,272,302				US-PATENT-CLASS-244-161				US-PATENT-CLASS-365-120
N81-26402*	c 34			NASA-CASE-KSC-11076-1				US-PATENT-CLASS-294-86R				US-PATENT-4,154,501
				US-PATENT-APPL-SN-051274				US-PATENT-CLASS-318-640	N81-29407*	c 35		NASA-CASE-LAR-12308-1
				US-PATENT-CLASS-364-510				US-PATENT-CLASS-356-152				US-PATENT-APPL-SN-111438
				US-PATENT-CLASS-364-571				US-PATENT-CLASS-414-730				US-PATENT-CLASS-73-683.31
				US-PATENT-CLASS-73-861				US-PATENT-4,260,187				US-PATENT-CLASS-73-684.52
				US-PATENT-4,253,156	N81-27615* #	c 44		NASA-CASE-LEW-13556-1				US-PATENT-4,274,285
N81-26431*	c 35			NASA-CASE-FRC-10112-1				US-PATENT-APPL-SN-272233	N81-29524*	c 44		NASA-CASE-LEW-13148-2
				US-PATENT-APPL-SN-122965	N81-27783*	c 52		NASA-CASE-NPO-14402-1				US-PATENT-APPL-SN-061555
				US-PATENT-CLASS-219-209				US-PATENT-APPL-SN-855364				US-PATENT-APPL-SN-964754
				US-PATENT-CLASS-219-210				US-PATENT-CLASS-128-665				US-PATENT-CLASS-204-2.1
				US-PATENT-CLASS-219-510				US-PATENT-CLASS-356-406				US-PATENT-4,192,910
				US-PATENT-CLASS-236-1F				US-PATENT-CLASS-356-407				US-PATENT-4,270,984
				US-PATENT-CLASS-361-334				US-PATENT-CLASS-356-416	N81-29525*	c 44		NASA-CASE-NPO-13689-2
				US-PATENT-CLASS-73-361				US-PATENT-4,170,987				US-PATENT-APPL-SN-093714
				US-PATENT-4,264,802	N81-27806*	c 54		NASA-CASE-LAR-12320-1				US-PATENT-APPL-SN-597430
N81-26447*	c 37			NASA-CASE-LEW-12119-2				US-PATENT-APPL-SN-043913				US-PATENT-APPL-SN-683073
				US-PATENT-APPL-SN-102004				US-PATENT-CLASS-434-59				US-PATENT-APPL-SN-837513
				US-PATENT-APPL-SN-672219				US-PATENT-4,264,310				US-PATENT-CLASS-136-255
				US-PATENT-CLASS-277-153	N81-27814*	c 60		NASA-CASE-NPO-14554-1				US-PATENT-CLASS-136-258
				US-PATENT-CLASS-277-193				US-PATENT-APPL-SN-974473				US-PATENT-CLASS-136-262
				US-PATENT-4,212,477				US-PATENT-CLASS-364-200				US-PATENT-CLASS-357-15
				US-PATENT-4,266,788				US-PATENT-CLASS-364-900				US-PATENT-CLASS-357-30
N81-26509*	c 43			NASA-CASE-NPO-14140-1				US-PATENT-CLASS-370-58				US-PATENT-4,278,830
				NASA-CASE-NPO-14387-1				US-PATENT-4,264,984	N81-29763*	c 52		NASA-CASE-ARC-11031-1
				US-PATENT-APPL-SN-897832	N81-28698*	c 51		NASA-CASE-LAR-12520-1				US-PATENT-APPL-SN-897828
				US-PATENT-CLASS-134-17				US-PATENT-APPL-SN-067596				US-PATENT-CLASS-128-275
				US-PATENT-CLASS-166-222				US-PATENT-CLASS-204-1T				US-PATENT-CLASS-128-760
				US-PATENT-CLASS-166-77				US-PATENT-CLASS-204-195B				US-PATENT-4,190,060
				US-PATENT-CLASS-239-562				US-PATENT-CLASS-435-291	N81-29764*	c 52		NASA-CASE-ARC-11118-1
				US-PATENT-CLASS-239-591				US-PATENT-CLASS-435-34				US-PATENT-APPL-SN-850504
				US-PATENT-CLASS-299-13				US-PATENT-CLASS-435-5				US-PATENT-CLASS-424-247
				US-PATENT-CLASS-299-17				US-PATENT-4,264,728				US-PATENT-CLASS-424-267
				US-PATENT-CLASS-299-20	N81-28740*	c 52		NASA-CASE-MSC-18381-1				US-PATENT-CLASS-424-274
				US-PATENT-4,226,475				US-PATENT-APPL-SN-034531				US-PATENT-4,279,906
N81-26718*	c 54			NASA-CASE-MFS-23696-1				US-PATENT-CLASS-128-295	N81-29963*	c 74		NASA-CASE-NPO-14448-1
				US-PATENT-APPL-SN-945044				US-PATENT-CLASS-4-144.3				US-PATENT-APPL-SN-037560
				US-PATENT-CLASS-294-93				US-PATENT-4,270,539				US-PATENT-CLASS-356-345
				US-PATENT-CLASS-414-4	N81-29129*	c 07		NASA-CASE-LEW-12990-1				US-PATENT-CLASS-356-346
				US-PATENT-CLASS-414-735				US-PATENT-APPL-SN-918654				US-PATENT-4,278,351
				US-PATENT-CLASS-414-744A				US-PATENT-CLASS-261-28	N81-32510*	c 37		NASA-CASE-MSC-16239-1
				US-PATENT-4,273,505				US-PATENT-CLASS-431-2				US-PATENT-APPL-SN-847276
N81-27271*	c 27			NASA-CASE-ARC-11176-2				US-PATENT-CLASS-60-39.06				US-PATENT-CLASS-91-325
				US-PATENT-APPL-SN-129798				US-PATENT-CLASS-60-726				US-PATENT-CLASS-91-341R
				US-PATENT-CLASS-528-168				US-PATENT-CLASS-60-737				US-PATENT-CLASS-91-410
				US-PATENT-CLASS-528-399				US-PATENT-4,189,914				US-PATENT-4,283,995
				US-PATENT-CLASS-528-4	N81-29152*	c 18		NASA-CASE-LAR-12052-1	N81-32829*	c 51		NASA-CASE-MFS-23825-1

		US-PATENT-APPL-SN-145273			US-PATENT-CLASS-528-351			US-PATENT-CLASS-250-235
		US-PATENT-CLASS-119-17			US-PATENT-CLASS-528-353			US-PATENT-CLASS-250-236
		US-PATENT-CLASS-119-18			US-PATENT-4,284,481			US-PATENT-CLASS-358-109
		US-PATENT-4,284,034			NASA-CASE-MSC-18606-1			US-PATENT-4,300,159
N81-33235*	c 24	NASA-CASE-LAR-12065-2	N82-11336*	c 32	US-PATENT-APPL-SN-145206	N82-15381*	c 35	NASA-CASE-NPO-14839-1
		US-PATENT-APPL-SN-119337			US-PATENT-CLASS-343-700MS			US-PATENT-APPL-SN-106119
		US-PATENT-APPL-SN-889671			US-PATENT-CLASS-343-708			US-PATENT-CLASS-343-100PE
		US-PATENT-CLASS-156-242			US-PATENT-CLASS-343-727			US-PATENT-CLASS-455-137
		US-PATENT-CLASS-156-245			US-PATENT-CLASS-343-795			US-PATENT-CLASS-455-139
		US-PATENT-CLASS-156-252			US-PATENT-CLASS-343-846			US-PATENT-CLASS-455-60
		US-PATENT-CLASS-156-264			US-PATENT-4,287,518			US-PATENT-4,293,140
		US-PATENT-CLASS-156-285	N82-11357*	c 33	NASA-CASE-MSC-18106-1	N82-16059*	c 04	NASA-CASE-ARC-10990-1
		US-PATENT-CLASS-156-290			US-PATENT-APPL-SN-098568			US-PATENT-APPL-SN-749420
		US-PATENT-4,229,473			US-PATENT-CLASS-335-256			US-PATENT-CLASS-244-114R
		US-PATENT-4,274,901			US-PATENT-CLASS-335-266			US-PATENT-CLASS-340-26
N81-33246*	c 25	NASA-CASE-NPO-14272-1			US-PATENT-CLASS-361-141			US-PATENT-4,291,294
		US-PATENT-APPL-SN-878253			US-PATENT-4,295,111	N82-16075*	c 06	NASA-CASE-FRC-11005-1
		US-PATENT-CLASS-201-17	N82-11360* #	c 33	NASA-CASE-MFS-25586-1			US-PATENT-APPL-SN-043942
		US-PATENT-CLASS-44-1R			US-PATENT-APPL-SN-310714			US-PATENT-CLASS-340-27NA
		US-PATENT-CLASS-44-2	N82-11399* #	c 34	NASA-CASE-LEW-12950-1			US-PATENT-CLASS-73-178R
		US-PATENT-4,146,367			US-PATENT-APPL-SN-202228			US-PATENT-4,283,705
N81-33319*	c 31	NASA-CASE-NPO-14596-1	N82-11431*	c 35	NASA-CASE-LAR-12552-1	N82-16174*	c 23	NASA-CASE-ARC-11244-1
		US-PATENT-APPL-SN-037072			US-PATENT-APPL-SN-070366			US-PATENT-APPL-SN-054501
		US-PATENT-CLASS-264-24			US-PATENT-CLASS-235-92PC			US-PATENT-CLASS-260-340.9R
		US-PATENT-CLASS-264-5			US-PATENT-CLASS-324-71CP			US-PATENT-CLASS-568-445
		US-PATENT-CLASS-264-9			US-PATENT-4,286,209			US-PATENT-CLASS-568-497
		US-PATENT-CLASS-425-6	N82-11432*	c 35	NASA-CASE-MFS-23250-1			US-PATENT-4,277,402
		US-PATENT-CLASS-65-142			US-PATENT-APPL-SN-119340	N82-16238*	c 27	NASA-CASE-MSC-18382-1
		US-PATENT-CLASS-65-21.4			US-PATENT-CLASS-422-40			US-PATENT-APPL-SN-145107
		US-PATENT-CLASS-65-22			US-PATENT-CLASS-430-17			US-PATENT-CLASS-106-18.16
		US-PATENT-4,279,632			US-PATENT-CLASS-430-372			US-PATENT-CLASS-106-18.24
N81-33403*	c 33	NASA-CASE-GSC-12324-1			US-PATENT-4,287,152			US-PATENT-CLASS-260-45.7R
		US-PATENT-APPL-SN-945043	N82-11469* #	c 37	NASA-CASE-NPO-15539-1			US-PATENT-CLASS-427-393.3
		US-PATENT-CLASS-358-109			US-PATENT-APPL-SN-303670			US-PATENT-CLASS-428-263
		US-PATENT-CLASS-358-213	N82-11634*	c 45	NASA-CASE-NPO-13877-1			US-PATENT-CLASS-428-264
		US-PATENT-4,280,141			US-PATENT-APPL-SN-652979			US-PATENT-CLASS-428-265
N81-33404*	c 33	NASA-CASE-NPO-14316-1			US-PATENT-CLASS-210-40			US-PATENT-CLASS-428-267
		US-PATENT-APPL-SN-051276			US-PATENT-CLASS-252-422			US-PATENT-CLASS-428-272
		US-PATENT-CLASS-363-24			US-PATENT-4,209,393			US-PATENT-4,284,682
		US-PATENT-CLASS-363-56	N82-11770*	c 52	NASA-CASE-MSC-14836-1	N82-16340*	c 33	NASA-CASE-GSC-12420-1
		US-PATENT-4,276,588			US-PATENT-APPL-SN-691647			US-PATENT-APPL-SN-129793
N81-33405*	c 33	NASA-CASE-NPO-14435-1			US-PATENT-CLASS-128-327			US-PATENT-CLASS-333-104
		US-PATENT-APPL-SN-017886			US-PATENT-CLASS-128-686			US-PATENT-CLASS-333-246
		US-PATENT-CLASS-329-122			US-PATENT-CLASS-128-691			US-PATENT-4,302,734
		US-PATENT-CLASS-331-DIG.2	N82-12166*	c 25	US-PATENT-4,294,261	N82-16396*	c 36	NASA-CASE-GSC-12321-1
		US-PATENT-CLASS-364-514			NASA-CASE-MSC-16497-1			US-PATENT-APPL-SN-102001
		US-PATENT-CLASS-375-1			US-PATENT-APPL-SN-041145			US-PATENT-CLASS-356-349
		US-PATENT-4,279-018			US-PATENT-CLASS-204-1T			US-PATENT-CLASS-356-386
N81-33448*	c 35	NASA-CASE-NPO-14258-1			US-PATENT-CLASS-204-195S			US-PATENT-4,299,492
		US-PATENT-APPL-SN-853349			US-PATENT-CLASS-204-263	N82-16408*	c 37	NASA-CASE-MSC-18422-1
		US-PATENT-APPL-SN-972252			US-PATENT-CLASS-204-264			US-PATENT-APPL-SN-102593
		US-PATENT-CLASS-350-370			US-PATENT-CLASS-204-266			US-PATENT-CLASS-244-113
		US-PATENT-CLASS-356-350			US-PATENT-CLASS-204-275			US-PATENT-CLASS-244-163
		US-PATENT-CLASS-356-351			US-PATENT-CLASS-204-276			US-PATENT-CLASS-244-217
		US-PATENT-4,280,766			US-PATENT-CLASS-204-278			US-PATENT-CLASS-277-189
N81-33482*	c 37	NASA-CASE-NPO-15227-1			US-PATENT-CLASS-23-230PC			US-PATENT-CLASS-277-81R
		US-PATENT-APPL-SN-163840			US-PATENT-CLASS-23-232E			US-PATENT-CLASS-418-113
		US-PATENT-CLASS-118-50			US-PATENT-CLASS-422-80			US-PATENT-CLASS-418-142
		US-PATENT-CLASS-118-52			US-PATENT-4,293,522			US-PATENT-4,290,612
		US-PATENT-CLASS-269-21	N82-12297*	c 32	NASA-CASE-NPO-14054-1	N82-16474*	c 44	NASA-CASE-MFS-23775-1
		US-PATENT-CLASS-427-240			US-PATENT-APPL-SN-969761			US-PATENT-APPL-SN-098569
		US-PATENT-4,280,689			US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-73-341
N81-33483*	c 37	NASA-CASE-FRC-11044-1			US-PATENT-4,292,634			US-PATENT-4,282,752
		US-PATENT-APPL-SN-135056	N82-12441*	c 37	NASA-CASE-MFS-25363-1	N82-16475*	c 44	NASA-CASE-NPO-15071-1
		US-PATENT-CLASS-318-663			US-PATENT-APPL-SN-171933			US-PATENT-APPL-SN-150115
		US-PATENT-CLASS-74-89			US-PATENT-CLASS-118-423			US-PATENT-CLASS-126-438
		US-PATENT-CLASS-92-130R			US-PATENT-CLASS-118-500			US-PATENT-CLASS-250-527
		US-PATENT-4,274,038			US-PATENT-CLASS-134-137			US-PATENT-CLASS-48-89
N82-11088*	c 09	NASA-CASE-LAR-12532-1			US-PATENT-4,286,542			US-PATENT-CLASS-48-99
		US-PATENT-APPL-SN-135040	N82-12442*	c 37	NASA-CASE-LEW-12989-1			US-PATENT-4,290,779
		US-PATENT-CLASS-73-147			US-PATENT-APPL-SN-092145	N82-16747*	c 60	NASA-CASE-GSC-12430-1
		US-PATENT-4,286,460			US-PATENT-CLASS-277-27			US-PATENT-APPL-SN-129779
N82-11144*	c 25	NASA-CASE-NPO-14273-1			US-PATENT-CLASS-277-40			US-PATENT-CLASS-370-100
		US-PATENT-APPL-SN-969759			US-PATENT-CLASS-277-93R			US-PATENT-CLASS-375-106
		US-PATENT-CLASS-110-234			US-PATENT-4,291,887			US-PATENT-CLASS-375-114
		US-PATENT-CLASS-110-245	N82-12685*	c 46	NASA-CASE-NPO-14544-1			US-PATENT-CLASS-375-116
		US-PATENT-CLASS-110-255			US-PATENT-APPL-SN-078612			US-PATENT-4,298,987
		US-PATENT-CLASS-110-266			US-PATENT-CLASS-343-100ME	N82-16800*	c 71	NASA-CASE-FRC-11062-1
		US-PATENT-CLASS-122-4D			US-PATENT-CLASS-343-100PE			US-PATENT-APPL-SN-185869
		US-PATENT-4,287,838			US-PATENT-CLASS-343-781P			US-PATENT-CLASS-181-214
N82-11206*	c 27	NASA-CASE-LAR-12640-1			US-PATENT-4,282,525			US-PATENT-4,300,656
		US-PATENT-APPL-SN-092142	N82-13376*	c 34	NASA-CASE-MFS-25139-1	N82-18314*	c 20	NASA-CASE-GSC-12194-2
		US-PATENT-CLASS-156-307.7			US-PATENT-APPL-SN-126138			US-PATENT-APPL-SN-819029
		US-PATENT-CLASS-156-307.3			US-PATENT-CLASS-239-499			US-PATENT-APPL-SN-971474
		US-PATENT-CLASS-156-307.5			US-PATENT-CLASS-239-589			US-PATENT-CLASS-60-200R
		US-PATENT-CLASS-156-331.5			US-PATENT-CLASS-239-601			US-PATENT-CLASS-60-39.46M
		US-PATENT-CLASS-528-126			US-PATENT-4,300,723			US-PATENT-4,288,982
		US-PATENT-CLASS-528-172	N82-13415*	c 36	NASA-CASE-LAR-12592-1	N82-18389*	c 27	NASA-CASE-ARC-11176-1
		US-PATENT-CLASS-528-173			US-PATENT-APPL-SN-041141			US-PATENT-APPL-SN-129799
		US-PATENT-CLASS-528-180			US-PATENT-CLASS-331-94.5C			US-PATENT-CLASS-528-168
		US-PATENT-CLASS-528-207			US-PATENT-CLASS-331-94.5D			US-PATENT-CLASS-528-399
		US-PATENT-CLASS-528-208			US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-528-4
		US-PATENT-CLASS-528-210			US-PATENT-4,300,106			US-PATENT-CLASS-528-6
		US-PATENT-CLASS-528-211	N82-13465*	c 43	NASA-CASE-GSC-12032-2			US-PATENT-CLASS-528-7
		US-PATENT-CLASS-528-225			US-PATENT-APPL-SN-578700			US-PATENT-CLASS-568-2
		US-PATENT-CLASS-528-228			US-PATENT-APPL-SN-583219			US-PATENT-CLASS-568-4

N82-18401*	c 28	US-PATENT-CLASS-568-5	N82-23254*	c 09	US-PATENT-CLASS-244-190	N82-24415*	c 33	US-PATENT-CLASS-428-466
		US-PATENT-4,288,585			US-PATENT-CLASS-318-580			US-PATENT-CLASS-428-493
		NASA-CASE-ARC-11245-1			US-PATENT-4,326,685			US-PATENT-4,327,150
		US-PATENT-APPL-SN-088663			NASA-CASE-LAR-12441-1			NASA-CASE-LEW-13282-1
N82-18443*	c 32	US-PATENT-CLASS-239-690	N82-23282*	c 25	US-PATENT-APPL-SN-145210	N82-24416*	c 33	US-PATENT-APPL-SN-073579
		US-PATENT-CLASS-361-226			US-PATENT-CLASS-73-147			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-361-230			US-PATENT-4,327,581			US-PATENT-CLASS-315-5.38
		US-PATENT-4,303,961			NASA-CASE-NPO-14542-1			US-PATENT-4,277,721
N82-18493*	c 33	NASA-CASE-NPO-14632-1	N82-23376*	c 32	US-PATENT-APPL-SN-030831	N82-24417*	c 33	NASA-CASE-LAR-12633-1
		US-PATENT-APPL-SN-092143			US-PATENT-CLASS-166-267			US-PATENT-APPL-SN-135039
		US-PATENT-CLASS-367-100			US-PATENT-CLASS-166-303			US-PATENT-CLASS-358-213
		US-PATENT-CLASS-367-102			US-PATENT-CLASS-208-241			US-PATENT-4,279,001
N82-18494*	c 33	US-PATENT-CLASS-367-88	N82-24072*	c 74	US-PATENT-4,310,049	N82-24418*	c 33	NASA-CASE-FRC-11025-1
		US-PATENT-4,287,578			NASA-CASE-NPO-14361-1			US-PATENT-APPL-SN-115536
		NASA-CASE-FRC-11041-1			US-PATENT-APPL-SN-053572			US-PATENT-CLASS-328-167
		US-PATENT-APPL-SN-126064			US-PATENT-CLASS-343-17.1PF			US-PATENT-CLASS-330-109
N82-18601*	c 37	US-PATENT-CLASS-318-561	N82-24205*	c 08	US-PATENT-CLASS-343-5DP	N82-24419*	c 33	US-PATENT-CLASS-330-290
		US-PATENT-CLASS-318-620			US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-330-294
		US-PATENT-CLASS-318-621			US-PATENT-CLASS-356-5			US-PATENT-CLASS-330-306
		US-PATENT-CLASS-318-622			US-PATENT-CLASS-367-95			US-PATENT-CLASS-364-825
N82-18686*	c 44	US-PATENT-4,298,833	N82-24212*	c 09	US-PATENT-4,320,397	N82-24420*	c 33	US-PATENT-4,275,453
		NASA-CASE-FRC-11014-1			NASA-CASE-NPO-14813-1			NASA-CASE-NPO-14556-1
		US-PATENT-APPL-SN-053652			US-PATENT-APPL-SN-145282			US-PATENT-APPL-SN-023485
		US-PATENT-CLASS-331-113R			US-PATENT-CLASS-250-216			US-PATENT-CLASS-307-415
N82-19029*	c 74	US-PATENT-CLASS-363-132	N82-24272*	c 15	US-PATENT-CLASS-250-235	N82-24421*	c 33	US-PATENT-CLASS-328-67
		US-PATENT-CLASS-363-17			US-PATENT-4,320,290			US-PATENT-CLASS-331-94.5G
		US-PATENT-CLASS-363-61			NASA-CASE-LAR-12412-1			US-PATENT-CLASS-331-94.5PE
		US-PATENT-4,298,926			US-PATENT-APPL-SN-067595			US-PATENT-CLASS-333-20
N82-19540*	c 37	NASA-CASE-LAR-12372-1	N82-24296*	c 24	US-PATENT-CLASS-244-213	N82-24422*	c 33	US-PATENT-4,275,317
		US-PATENT-APPL-SN-108107			US-PATENT-CLASS-244-226			NASA-CASE-GSC-12415-1
		US-PATENT-CLASS-188-371			US-PATENT-CLASS-244-78			US-PATENT-APPL-SN-043943
		US-PATENT-CLASS-244-110C			US-PATENT-CLASS-74-479			US-PATENT-CLASS-165-32
N82-21268*	c 25	US-PATENT-CLASS-280-805	N82-24312*	c 25	US-PATENT-CLASS-74-480R	N82-24427* #	c 33	US-PATENT-CLASS-62-383
		US-PATENT-CLASS-57-906			US-PATENT-4,272,046			US-PATENT-4,281,708
		US-PATENT-4,304,320			NASA-CASE-ARC-11158-1			NASA-CASE-ARC-11116-1
		NASA-CASE-MFS-25287-1			US-PATENT-APPL-SN-053566			US-PATENT-APPL-SN-069485
N82-21269*	c 25	US-PATENT-CLASS-126-422	N82-24338*	c 27	US-PATENT-CLASS-434-42	N82-24490*	c 37	US-PATENT-CLASS-324-51
		US-PATENT-CLASS-126-429			US-PATENT-CLASS-434-43			US-PATENT-CLASS-324-52
		US-PATENT-CLASS-126-430			US-PATENT-4,313,726			US-PATENT-4,282,479
		US-PATENT-4,304,219			NASA-CASE-ARC-11256-1			NASA-CASE-GSC-12518-1
N82-21587*	c 37	US-PATENT-APPL-SN-188160	N82-24339*	c 27	US-PATENT-APPL-SN-032305	N82-24491*	c 37	US-PATENT-APPL-SN-119336
		US-PATENT-CLASS-455-610			US-PATENT-CLASS-102-504			US-PATENT-CLASS-310-12
		US-PATENT-CLASS-455-612			US-PATENT-CLASS-242-128			US-PATENT-CLASS-318-135
		US-PATENT-CLASS-455-615			US-PATENT-4,271,761			US-PATENT-CLASS-335-229
N82-222496* #	c 37	US-PATENT-CLASS-455-617	N82-24392*	c 27	NASA-CASE-FRC-11026-1	N82-24492*	c 37	US-PATENT-CLASS-335-266
		US-PATENT-4,287,606			US-PATENT-APPL-SN-043944			US-PATENT-4,315,197
		NASA-CASE-LEW-12131-3			US-PATENT-CLASS-228-157			NASA-CASE-GSC-12595-1
		US-PATENT-APPL-SN-096255			US-PATENT-CLASS-244-119			US-PATENT-APPL-SN-206506
N82-222875*	c 52	US-PATENT-CLASS-336-120	N82-24393*	c 27	US-PATENT-CLASS-244-123	N82-24493*	c 37	US-PATENT-CLASS-336-83
		US-PATENT-CLASS-336-83			US-PATENT-CLASS-428-593			US-PATENT-4,321,572
		US-PATENT-4,301,740			US-PATENT-CLASS-428-594			NASA-CASE-MSC-18407-1
		NASA-CASE-ARC-11325-1			US-PATENT-CLASS-428-604			US-PATENT-APPL-SN-293419
N82-22875*	c 52	US-PATENT-4,292,375	N82-24394*	c 27	US-PATENT-4,292,375	N82-24494*	c 37	US-PATENT-APPL-SN-178195
		NASA-CASE-ARC-11097-1			US-PATENT-APPL-SN-891872			US-PATENT-CLASS-29-613
		US-PATENT-APPL-SN-891872			US-PATENT-CLASS-260-386			US-PATENT-CLASS-338-25
		US-PATENT-CLASS-260-386			US-PATENT-CLASS-528-402			US-PATENT-CLASS-338-275
N82-22875*	c 52	US-PATENT-CLASS-528-402	N82-24395*	c 27	US-PATENT-CLASS-570-123	N82-24495*	c 37	US-PATENT-CLASS-338-28
		US-PATENT-CLASS-570-123			US-PATENT-CLASS-570-129			US-PATENT-4,317,102
		US-PATENT-CLASS-570-129			US-PATENT-4,307,024			NASA-CASE-GSC-12354-1
		US-PATENT-4,307,024			NASA-CASE-ARC-11253-2			US-PATENT-APPL-SN-128229
N82-23231*	c 04	US-PATENT-CLASS-264-453	N82-24396*	c 27	US-PATENT-APPL-SN-028301	N82-24496*	c 37	US-PATENT-CLASS-250-385
		US-PATENT-CLASS-264-53			US-PATENT-APPL-SN-145284			US-PATENT-CLASS-250-386
		US-PATENT-CLASS-427-115			US-PATENT-CLASS-528-310			US-PATENT-CLASS-250-389
		US-PATENT-CLASS-427-244			US-PATENT-CLASS-528-328			US-PATENT-CLASS-29-25.14

N82-24493*	c 37	US-PATENT-4,312,292	N82-26571*	c 33	US-PATENT-CLASS-340-347DD	N82-28442*	c 27	US-PATENT-APPL-SN-161254
		NASA-CASE-NPO-15115-1			US-PATENT-4,313,103			US-PATENT-CLASS-427-205
		US-PATENT-APPL-SN-154725			NASA-CASE-LAR-12595-1			US-PATENT-CLASS-427-253
		US-PATENT-CLASS-74-18.1			US-PATENT-APPL-SN-070774			US-PATENT-CLASS-427-405
		US-PATENT-CLASS-74-18.2			US-PATENT-CLASS-156-157			US-PATENT-CLASS-428-938
N82-24494*	c 37	US-PATENT-CLASS-92-37	N82-26572*	c 33	US-PATENT-CLASS-156-272	N82-28545*	c 33	US-PATENT-CLASS-428-941
		US-PATENT-4,311,057			US-PATENT-CLASS-156-379.7			US-PATENT-4,310,574
		NASA-CASE-MSC-18526-1			US-PATENT-CLASS-156-71			NASA-CASE-NPO-14845-1
		US-PATENT-APPL-SN-119335			US-PATENT-CLASS-219-10.41			US-PATENT-APPL-SN-219680
		US-PATENT-CLASS-285-159			US-PATENT-CLASS-219-10.53			US-PATENT-CLASS-264-5
N82-24639*	c 44	US-PATENT-CLASS-285-401	N82-26628*	c 35	US-PATENT-CLASS-219-545	N82-28604*	c 35	US-PATENT-CLASS-425-6
		US-PATENT-CLASS-285-89			US-PATENT-CLASS-428-247			US-PATENT-CLASS-65-142
		US-PATENT-CLASS-403-315			US-PATENT-4,313,777			US-PATENT-CLASS-65-21.4
		US-PATENT-4,320,911			NASA-CASE-LAR-12465-1			US-PATENT-CLASS-65-22
		NASA-CASE-MFS-23830-1			US-PATENT-APPL-SN-106136			US-PATENT-4,313,745
N82-24640*	c 44	US-PATENT-APPL-SN-129780	N82-26628*	c 35	US-PATENT-CLASS-361-283	N82-28604*	c 35	NASA-CASE-MFS-23776-1
		US-PATENT-CLASS-415-DIG.8			US-PATENT-CLASS-367-181			US-PATENT-APPL-SN-145272
		US-PATENT-CLASS-415-2R			US-PATENT-CLASS-73-724			US-PATENT-CLASS-250-214
		US-PATENT-4,309,146			US-PATENT-4,310,906			US-PATENT-CLASS-250-221
		NASA-CASE-LAR-12148-1			NASA-CASE-LAR-12474-1			US-PATENT-4,319,133
N82-24641*	c 44	US-PATENT-APPL-SN-051275	N82-26628*	c 35	US-PATENT-APPL-SN-171934	N82-28604*	c 35	NASA-CASE-LAR-12709-1
		US-PATENT-CLASS-60-516			US-PATENT-CLASS-352-171			US-PATENT-APPL-SN-235796
		US-PATENT-CLASS-60-641.14			US-PATENT-CLASS-354-217			US-PATENT-CLASS-204-195B
		US-PATENT-4,326,381			US-PATENT-CLASS-354-289			US-PATENT-CLASS-435-291
		NASA-CASE-GSC-10019-1			US-PATENT-4,311,378			US-PATENT-CLASS-435-34
N82-24642*	c 44	US-PATENT-APPL-SN-680048	N82-26631* #	c 35	NASA-CASE-MFS-25707-1	N82-28616*	c 36	US-PATENT-CLASS-435-39
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-359627			US-PATENT-4,335,206
		US-PATENT-3,498,841			NASA-CASE-MSC-18538-1			NASA-CASE-NPO-14782-1
		NASA-CASE-GSC-10350-1			US-PATENT-APPL-SN-138944			US-PATENT-APPL-SN-119339
		US-PATENT-APPL-SN-679980			US-PATENT-CLASS-30-102			US-PATENT-CLASS-330-4.3
N82-24643*	c 44	US-PATENT-CLASS-136-6	N82-26672*	c 37	US-PATENT-4,305,205	N82-28780*	c 44	US-PATENT-CLASS-372-56
		US-PATENT-3,498,840			NASA-CASE-MSC-18742-1			US-PATENT-CLASS-372-58
		NASA-CASE-GSC-10017-1			US-PATENT-APPL-SN-293417			US-PATENT-CLASS-372-82
		US-PATENT-APPL-SN-679996			NASA-CASE-LEW-13268-2			US-PATENT-4,328,464
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-325931			NASA-CASE-NPO-13689-4
N82-24644*	c 44	US-PATENT-3,519,484	N82-26776*	c 44	NASA-CASE-NPO-15183-1	N82-28780*	c 44	US-PATENT-APPL-SN-225501
		NASA-CASE-GSC-10018-1			US-PATENT-APPL-SN-173519			US-PATENT-APPL-SN-597430
		US-PATENT-APPL-SN-679987			US-PATENT-CLASS-62-148			US-PATENT-APPL-SN-683073
		US-PATENT-CLASS-136-6			US-PATENT-CLASS-62-235.1			US-PATENT-APPL-SN-837513
		US-PATENT-3,519,483			US-PATENT-CLASS-62-238.3			US-PATENT-APPL-SN-93714
N82-24645*	c 44	NASA-CASE-GSC-10349-1	N82-26777*	c 44	US-PATENT-CLASS-62-239	N82-29002*	c 54	US-PATENT-CLASS-148-175
		US-PATENT-APPL-SN-658999			US-PATENT-CLASS-62-244			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-136-148			US-PATENT-CLASS-62-476			US-PATENT-CLASS-427-531
		US-PATENT-3,506,496			US-PATENT-4,307,575			US-PATENT-CLASS-427-74
		NASA-CASE-KSC-11099-1			NASA-CASE-NPO-15179-1			US-PATENT-4,278,830
N82-24779*	c 47	US-PATENT-APPL-SN-043945	N82-26777*	c 44	US-PATENT-APPL-SN-185867	N82-29002*	c 54	US-PATENT-4,321,099
		US-PATENT-CLASS-324-72			US-PATENT-CLASS-136-261			NASA-CASE-XMS-03694-1
		US-PATENT-CLASS-324-77R			US-PATENT-CLASS-136-290			US-PATENT-APPL-SN-394280
		US-PATENT-4,272,720			US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-165-46
		NASA-CASE-FRC-11042-1			US-PATENT-CLASS-219-121LN			US-PATENT-3,295,594
N82-24839*	c 60	US-PATENT-APPL-SN-129778	N82-26987*	c 54	US-PATENT-CLASS-357-30	N82-29013*	c 60	NASA-CASE-MSC-18498-1
		US-PATENT-CLASS-254-131			US-PATENT-CLASS-357-63			US-PATENT-APPL-SN-173518
		US-PATENT-CLASS-29-267			US-PATENT-4,311,870			US-PATENT-CLASS-244-194
		US-PATENT-CLASS-29-764			NASA-CASE-ARC-11314-1			US-PATENT-CLASS-318-564
		US-PATENT-4,307,510			US-PATENT-APPL-SN-168943			US-PATENT-CLASS-371-68
N82-25484* #	c 35	US-PATENT-CLASS-73-862.08	N82-27086* #	c 71	US-PATENT-CLASS-73-862.08	N82-29330*	c 09	US-PATENT-4,327,437
		NASA-CASE-NPO-15494-1			US-PATENT-4,311,055			NASA-CASE-KSC-11042-1
		US-PATENT-APPL-SN-325885			NASA-CASE-NPO-15562-1			US-PATENT-APPL-SN-154663
		NASA-CASE-FRC-11007-2			US-PATENT-APPL-SN-364097			US-PATENT-APPL-SN-862878
		US-PATENT-APPL-SN-403911			NASA-CASE-MSC-18532-1			US-PATENT-CLASS-53-429
N82-26277*	c 05	US-PATENT-CLASS-244-12.2	N82-27558*	c 32	US-PATENT-APPL-SN-172099	N82-29358*	c 23	US-PATENT-CLASS-8-150
		US-PATENT-CLASS-244-23C			US-PATENT-CLASS-343-789			US-PATENT-CLASS-244-810
		US-PATENT-CLASS-244-34A			US-PATENT-CLASS-343-895			US-PATENT-4,244,810
		US-PATENT-CLASS-244-93			US-PATENT-4,315,266			US-PATENT-4,313,291
		US-PATENT-4,307,856			US-PATENT-4,315,266			NASA-CASE-LAR-10423-1
N82-26293*	c 07	NASA-CASE-LEW-13199-1	N82-28279*	c 05	NASA-CASE-LAR-12175-1	N82-29358*	c 23	US-PATENT-APPL-SN-877445
		US-PATENT-APPL-SN-025301			US-PATENT-APPL-SN-079913			US-PATENT-CLASS-260-65
		US-PATENT-CLASS-244-110B			US-PATENT-CLASS-244-48			US-PATENT-3,657,190
		US-PATENT-CLASS-60-226A			US-PATENT-4,330,100			NASA-CASE-MSC-18223-1
		US-PATENT-4,278,220			US-PATENT-CLASS-11267-2			US-PATENT-APPL-SN-219681
N82-26384*	c 24	NASA-CASE-LAR-11688-1	N82-28353*	c 23	US-PATENT-APPL-SN-163838	N82-29362*	c 24	US-PATENT-CLASS-128-280
		US-PATENT-APPL-SN-878540			US-PATENT-CLASS-528-401			US-PATENT-CLASS-128-283
		US-PATENT-CLASS-244-119			US-PATENT-CLASS-528-422			US-PATENT-CLASS-128-284
		US-PATENT-CLASS-244-123			US-PATENT-CLASS-547-131			US-PATENT-CLASS-128-285
		US-PATENT-CLASS-244-132			US-PATENT-CLASS-564-229			US-PATENT-CLASS-128-288
N82-26387* #	c 24	US-PATENT-4,310,132	N82-28368*	c 25	US-PATENT-4,316,035	N82-29370*	c 25	US-PATENT-CLASS-128-291
		NASA-CASE-MSC-18934-3			NASA-CASE-NPO-15015-1			US-PATENT-CLASS-128-296
		US-PATENT-APPL-SN-361711			US-PATENT-APPL-SN-145207			US-PATENT-CLASS-428-283
		US-PATENT-CLASS-244-110B			US-PATENT-CLASS-203-12			US-PATENT-CLASS-428-284
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-422-186			US-PATENT-CLASS-428-286
N82-26396*	c 25	US-PATENT-CLASS-252-514	N82-28368*	c 25	US-PATENT-CLASS-422-198	N82-29370*	c 25	US-PATENT-CLASS-428-287
		US-PATENT-4,311,615			US-PATENT-CLASS-423-235			US-PATENT-CLASS-428-288
		NASA-CASE-LEW-12296-1			US-PATENT-CLASS-423-539			US-PATENT-4,338,371
		US-PATENT-APPL-SN-122966			US-PATENT-CLASS-423-540			NASA-CASE-XGS-05584-1
		US-PATENT-CLASS-315-3.5			US-PATENT-CLASS-423-542			NASA-CASE-XGS-07375-1
N82-26568*	c 33	US-PATENT-CLASS-315-3.6	N82-28440*	c 27	US-PATENT-CLASS-423-579	N82-29370*	c 25	NASA-CASE-XGS-07397-1
		US-PATENT-CLASS-330-43			US-PATENT-CLASS-423-648R			US-PATENT-APPL-SN-446071
		US-PATENT-4,311,615			US-PATENT-4,314,984			US-PATENT-CLASS-106-197
		NASA-CASE-LEW-12296-1			NASA-CASE-LEW-13120-1			US-PATENT-3,442,674
		US-PATENT-APPL-SN-122966			US-PATENT-APPL-SN-218587			NASA-CASE-NPO-14902-1
N82-26569*	c 33	US-PATENT-CLASS-318-254	N82-28440*	c 27	US-PATENT-CLASS-204-192E	N82-29371*	c 25	US-PATENT-APPL-SN-156790
		US-PATENT-CLASS-318-806			US-PATENT-CLASS-204-192C			US-PATENT-CLASS-201-17
		US-PATENT-CLASS-318-812			US-PATENT-CLASS-264-22			US-PATENT-CLASS-44-15R
		US-PATENT-CLASS-318-830			US-PATENT-CLASS-264-220			US-PATENT-4,325,707
		US-PATENT-4,313,077			US-PATENT-CLASS-428-141			NASA-CASE-LEW-13169-1
N82-26570*	c 33	NASA-CASE-LAR-12659-1	N82-28441*	c 27	US-PATENT-4,329,385	N82-29415*	c 26	US-PATENT-APPL-SN-102003
		US-PATENT-APPL-SN-171928			NASA-CASE-LEW-13343-1			US-PATENT-CLASS-204-192C
		US-PATENT-CLASS-318-806			US-PATENT-CLASS-204-192E			US-PATENT-CLASS-201-17
		US-PATENT-CLASS-318-812			US-PATENT-CLASS-264-22			US-PATENT-CLASS-44-15R
		US-PATENT-CLASS-318-830			US-PATENT-CLASS-428-141			US-PATENT-4,325,707

N82-29451*	c 27	US-PATENT-4,336,117 NASA-CASE-HQN-10274-1 US-PATENT-APPL-SN-683465 US-PATENT-CLASS-106-52 US-PATENT-3,573,078	N82-29863*	c 52	NASA-CASE-GSC-12560-1 US-PATENT-APPL-SN-153246 US-PATENT-CLASS-128-421 US-PATENT-4,308,868	N82-32732*	c 37	NASA-CASE-LAR-12482-1 US-PATENT-APPL-SN-100611 US-PATENT-CLASS-403-217 US-PATENT-CLASS-403-317 US-PATENT-CLASS-403-331 US-PATENT-CLASS-403-340 US-PATENT-CLASS-52-81 US-PATENT-4,340,318
N82-29452*	c 27	NASA-CASE-HQN-10931-2 US-PATENT-APPL-SN-246295 US-PATENT-APPL-SN-874674 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,785,836	N82-30071*	c 74	NASA-CASE-MSC-18627-1 US-PATENT-APPL-SN-186881 US-PATENT-CLASS-250-226 US-PATENT-CLASS-250-231R US-PATENT-CLASS-374-162R US-PATENT-4,338,516	N82-32841*	c 44	NASA-CASE-LAR-12513-1 US-PATENT-APPL-SN-161256 US-PATENT-CLASS-250-330 US-PATENT-CLASS-250-370 US-PATENT-4,331,873
N82-29453*	c 27	NASA-CASE-LEW-13268-1 US-PATENT-APPL-SN-145209 US-PATENT-CLASS-415-174 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-423 US-PATENT-4,336,276	N82-30105*	c 76	NASA-CASE-NPO-14831-1 US-PATENT-APPL-SN-233269 US-PATENT-CLASS-156-602 US-PATENT-CLASS-156-608 US-PATENT-CLASS-422-246 US-PATENT-4,330,359	N82-33288*	c 85	NASA-CASE-FRC-11058-1 US-PATENT-APPL-SN-175453 US-PATENT-CLASS-105-2R US-PATENT-CLASS-244-53B US-PATENT-CLASS-296-1S US-PATENT-CLASS-296-24C US-PATENT-CLASS-296-91 US-PATENT-4,343,506
N82-29454*	c 27	NASA-CASE-HQN-10328-2 US-PATENT-APPL-SN-246294 US-PATENT-APPL-SN-874673 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,811,901	N82-30371*	c 26	NASA-CASE-LEW-13169-2 US-PATENT-APPL-SN-102003 US-PATENT-APPL-SN-191746 US-PATENT-CLASS-204-192C US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-472 US-PATENT-4,341,843	N82-33520*	c 27	NASA-CASE-KSC-11097-1 US-PATENT-APPL-SN-172100 US-PATENT-CLASS-427-140 US-PATENT-CLASS-427-372.2 US-PATENT-CLASS-427-397.7 US-PATENT-4,330,572
N82-29455*	c 27	NASA-CASE-HQN-10595-1 US-PATENT-APPL-SN-259056 US-PATENT-APPL-SN-874675 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,947,281	N82-31505*	c 26	NASA-CASE-LEW-13339-1 US-PATENT-APPL-SN-199769 US-PATENT-CLASS-148-428 US-PATENT-CLASS-420-445 US-PATENT-CLASS-420-551 US-PATENT-CLASS-420-588 US-PATENT-4,340,425	N82-33521*	c 27	NASA-CASE-LEW-13028-1 US-PATENT-APPL-SN-218588 US-PATENT-CLASS-204-192E US-PATENT-CLASS-204-192EC US-PATENT-CLASS-204-38B US-PATENT-CLASS-428-141 US-PATENT-4,344,996
N82-29456*	c 27	NASA-CASE-MSC-18741-1 US-PATENT-APPL-SN-217336 US-PATENT-CLASS-156-329 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158A US-PATENT-CLASS-244-160 US-PATENT-CLASS-244-163 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-218 US-PATENT-CLASS-428-283 US-PATENT-CLASS-428-289 US-PATENT-CLASS-428-307.7 US-PATENT-CLASS-428-311.5 US-PATENT-CLASS-428-312.6 US-PATENT-CLASS-428-317.9 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-446 US-PATENT-CLASS-428-49 US-PATENT-4,338,368	N82-31583*	c 32	NASA-CASE-MSC-16462-1 US-PATENT-APPL-SN-900841 US-PATENT-CLASS-178-22.16 US-PATENT-CLASS-178-22.17 US-PATENT-CLASS-364-717 US-PATENT-CLASS-375-106 US-PATENT-4,341,925	N82-33523* #	c 27	NASA-CASE-ARC-14408-1 US-PATENT-APPL-SN-403371 US-PATENT-CLASS-MFS-15670-1 US-PATENT-APPL-SN-409679
N82-29538*	c 33	NASA-CASE-NPO-15066-1 US-PATENT-APPL-SN-191744 US-PATENT-CLASS-179-18GF US-PATENT-CLASS-340-825.89 US-PATENT-CLASS-370-67 US-PATENT-4,331,956	N82-31659*	c 35	NASA-CASE-LAR-12363-1 US-PATENT-APPL-SN-191748 US-PATENT-CLASS-250-332 US-PATENT-CLASS-250-370 US-PATENT-CLASS-29-576J US-PATENT-CLASS-29-576S US-PATENT-CLASS-29-620 US-PATENT-4,341,012	N82-33634* #	c 33	NASA-CASE-MFS-15670-1 US-PATENT-APPL-SN-409679
N82-29539*	c 33	NASA-CASE-NPO-14311-1 US-PATENT-APPL-SN-969762 US-PATENT-CLASS-328-166 US-PATENT-CLASS-455-202 US-PATENT-CLASS-455-208 US-PATENT-CLASS-455-234 US-PATENT-CLASS-455-306 US-PATENT-4,336,616	N82-31690* #	c 37	NASA-CASE-MSC-20304-1 US-PATENT-APPL-SN-393585 US-PATENT-CLASS-13400-1 US-PATENT-APPL-SN-219677 US-PATENT-CLASS-136-249 US-PATENT-CLASS-357-30 US-PATENT-4,341,918	N82-33996*	c 52	NASA-CASE-NPO-14549-2 US-PATENT-APPL-SN-149526 US-PATENT-APPL-SN-918705 US-PATENT-CLASS-128-422 US-PATENT-CLASS-128-784 US-PATENT-CLASS-128-804 US-PATENT-4,346,715
N82-29589*	c 36	NASA-CASE-NPO-15111-1 US-PATENT-APPL-SN-150040 US-PATENT-CLASS-350-358 US-PATENT-4,332,441	N82-31764*	c 44	NASA-CASE-LEW-13400-1 US-PATENT-APPL-SN-219677 US-PATENT-CLASS-136-249 US-PATENT-CLASS-357-30 US-PATENT-4,341,918	N83-10040*	c 06	NASA-CASE-NPO-15351-1 US-PATENT-APPL-SN-224231 US-PATENT-CLASS-343-100ME US-PATENT-CLASS-374-122 US-PATENT-CLASS-374-123 US-PATENT-CLASS-73-170R US-PATENT-CLASS-73-178R US-PATENT-4,346,595
N82-29708*	c 44	NASA-CASE-LEW-13171-1 US-PATENT-APPL-SN-238790 US-PATENT-CLASS-429-144 US-PATENT-CLASS-429-251 US-PATENT-CLASS-429-254 US-PATENT-4,331,746	N82-32366*	c 07	NASA-CASE-LEW-12938-1 US-PATENT-APPL-SN-060449 US-PATENT-CLASS-415-145 US-PATENT-CLASS-415-178 US-PATENT-CLASS-60-39.07 US-PATENT-CLASS-60-39.29 US-PATENT-CLASS-60-726 US-PATENT-4,329,114	N83-10117*	c 24	NASA-CASE-LEW-12919-1 US-PATENT-APPL-SN-264378 US-PATENT-CLASS-204-192E US-PATENT-CLASS-313-106 US-PATENT-CLASS-313-107 US-PATENT-CLASS-315-538 US-PATENT-4,349,424
N82-29709*	c 44	NASA-CASE-LEW-13401-1 US-PATENT-APPL-SN-219678 US-PATENT-CLASS-136-249 US-PATENT-CLASS-148-1.5 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-4,335,503	N82-32373*	c 08	NASA-CASE-LAR-12468-1 US-PATENT-APPL-SN-135057 US-PATENT-CLASS-244-118.1 US-PATENT-CLASS-244-137R US-PATENT-CLASS-89-1.5G US-PATENT-4,343,447	N83-10126*	c 25	NASA-CASE-MFS-25426-1 US-PATENT-APPL-SN-254575 US-PATENT-CLASS-204-299R US-PATENT-4,349,429
N82-29710*	c 44	NASA-CASE-NPO-15269-1 US-PATENT-APPL-SN-220214 US-PATENT-CLASS-204-290F US-PATENT-CLASS-204-290R US-PATENT-CLASS-429-193 US-PATENT-CLASS-429-33 US-PATENT-CLASS-429-40 US-PATENT-4,331,742	N82-32417*	c 24	NASA-CASE-LAR-12620-1 US-PATENT-APPL-SN-072857 US-PATENT-CLASS-244-132 US-PATENT-CLASS-244-158A US-PATENT-CLASS-428-594 US-PATENT-CLASS-428-604 US-PATENT-CLASS-428-607 US-PATENT-CLASS-428-608 US-PATENT-4,344,591	N83-10170*	c 26	NASA-CASE-LEW-12941-1 US-PATENT-APPL-SN-210632 US-PATENT-CLASS-29-458 US-PATENT-CLASS-29-521 US-PATENT-CLASS-403-282 US-PATENT-4,349,954
N82-29862*	c 52	NASA-CASE-LAR-12471-1 US-PATENT-APPL-SN-178193 US-PATENT-CLASS-128-62A US-PATENT-CLASS-433-118 US-PATENT-CLASS-433-125 US-PATENT-CLASS-433-86 US-PATENT-4,331,422	N82-32659*	c 35	NASA-CASE-GSC-12587-1 US-PATENT-APPL-SN-173524 US-PATENT-CLASS-250-369 US-PATENT-4,345,153	N83-10345*	c 33	NASA-CASE-MFS-25208-1 US-PATENT-APPL-SN-280154 US-PATENT-CLASS-318-803 US-PATENT-CLASS-363-87 US-PATENT-4,351,022
			N82-32712*	c 36	NASA-CASE-LAR-12328-1 US-PATENT-APPL-SN-073477 US-PATENT-CLASS-350-453 US-PATENT-CLASS-356-28.5 US-PATENT-4,346,990	N83-10417*	c 36	NASA-CASE-NPO-15021-1 US-PATENT-APPL-SN-130496 US-PATENT-CLASS-372-56 US-PATENT-CLASS-372-59 US-PATENT-CLASS-372-60 US-PATENT-4,347,613
			N82-32730*	c 37	NASA-CASE-GSC-12584-1 US-PATENT-APPL-SN-182879 US-PATENT-CLASS-125-23R US-PATENT-CLASS-225-103 US-PATENT-4,343,287	N83-10494*	c 44	NASA-CASE-LEW-13131-1 US-PATENT-APPL-SN-246772 US-PATENT-CLASS-204-56R US-PATENT-4,350,574
			N82-32731*	c 37	NASA-CASE-MFS-23846-1 US-PATENT-APPL-SN-168944 US-PATENT-CLASS-294-116 US-PATENT-CLASS-414-222 US-PATENT-CLASS-414-226 US-PATENT-CLASS-414-739 US-PATENT-4,343,584	N83-10501*	c 44	NASA-CASE-NPO-14369-1 US-PATENT-APPL-SN-126063 US-PATENT-CLASS-422-200 US-PATENT-CLASS-422-202 US-PATENT-CLASS-422-224 US-PATENT-CLASS-55-204 US-PATENT-4,343,772
						N83-10900*	c 74	NASA-CASE-GSC-12608-1 US-PATENT-APPL-SN-195228 US-PATENT-CLASS-350-170 US-PATENT-CLASS-350-286

N83-13171*	c 24	US-PATENT-4,350,410	N83-18975*	c 32	US-PATENT-CLASS-428-920	N83-20996*	c 18	US-PATENT-CLASS-343-DIG2
		NASA-CASE-MSC-18737-1			US-PATENT-4,373,003			US-PATENT-4,377,266
		US-PATENT-APPL-SN-266256			NASA-CASE-NPO-14998-1			NASA-CASE-LEW-13269-1
		US-PATENT-CLASS-427-379			US-PATENT-APPL-SN-195547			US-PATENT-APPL-SN-242795
N83-13172*	c 24	US-PATENT-CLASS-427-384	N83-18996*	c 33	US-PATENT-CLASS-250-203R	N83-21311*	c 35	US-PATENT-CLASS-415-174
		US-PATENT-CLASS-427-387			US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-415-197
		US-PATENT-CLASS-428-218			US-PATENT-CLASS-343-5CM			US-PATENT-4,377,371
		US-PATENT-4,358,486			US-PATENT-CLASS-364-822			NASA-CASE-LAR-12469-1
N83-13187*	c 25	NASA-CASE-MSC-18736-1	N83-19015*	c 34	US-PATENT-CLASS-364-861	N83-21312*	c 35	US-PATENT-APPL-SN-195223
		US-PATENT-APPL-SN-266254			US-PATENT-4,371,946			US-PATENT-CLASS-250-338
		US-PATENT-CLASS-244-158A			NASA-CASE-NPO-14567-1			US-PATENT-CLASS-250-372
		US-PATENT-CLASS-427-140			US-PATENT-APPL-SN-038550			US-PATENT-CLASS-250-474.1
N83-13188*	c 25	US-PATENT-CLASS-427-292	N83-19091*	c 37	US-PATENT-APPL-SN-180230	N83-21503*	c 44	US-PATENT-CLASS-356-51
		US-PATENT-CLASS-427-302			US-PATENT-CLASS-250-311			US-PATENT-4,372,680
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-324-73R			NASA-CASE-MSC-18723-1
		US-PATENT-CLASS-427-384			US-PATENT-CLASS-356-394			US-PATENT-APPL-SN-234223
N83-13323*	c 32	US-PATENT-CLASS-427-387	N83-19596*	c 74	US-PATENT-4,358,732	N83-21504*	c 44	US-PATENT-CLASS-73-818
		US-PATENT-CLASS-428-63			NASA-CASE-MFS-25282-1			US-PATENT-4,377,089
		US-PATENT-4,358,480			US-PATENT-APPL-SN-263828			NASA-CASE-LAR-12458-1
		NASA-CASE-MFS-25306-1			US-PATENT-CLASS-378-2			US-PATENT-APPL-SN-274705
N83-13579*	c 44	US-PATENT-APPL-SN-309293	N83-19597*	c 74	US-PATENT-CLASS-378-43	N83-21785*	c 52	US-PATENT-CLASS-73-147
		US-PATENT-CLASS-204-280R			US-PATENT-4,370,750			US-PATENT-4,372,158
		US-PATENT-CLASS-204-299R			NASA-CASE-LAR-12361-1			NASA-CASE-LAR-12720-1
		US-PATENT-4,358,358			US-PATENT-APPL-SN-182880			US-PATENT-APPL-SN-274706
N83-16633* #	c 33	US-PATENT-CLASS-204-223A	N83-19737*	c 05	US-PATENT-CLASS-411-513	N83-21949*	c 74	US-PATENT-CLASS-73-147
		US-PATENT-CLASS-264-104			US-PATENT-CLASS-411-357			US-PATENT-4,372,159
		US-PATENT-CLASS-429-206			US-PATENT-4,371,301			NASA-CASE-LEW-13107-1
		US-PATENT-CLASS-429-253			NASA-CASE-LEW-12253-1			US-PATENT-APPL-SN-272407
N83-17045*	c 51	US-PATENT-CLASS-525-61	N83-19900*	c 27	US-PATENT-CLASS-165-104.26	N83-24572* #	c 25	US-PATENT-CLASS-604-280
		US-PATENT-4,357,402			US-PATENT-CLASS-165-134R			US-PATENT-CLASS-604-8
		NASA-CASE-KSC-11025-1			US-PATENT-CLASS-29-157.3H			US-PATENT-4,377,169
		US-PATENT-APPL-SN-061327			US-PATENT-4,372,377			NASA-CASE-ARC-11354-1
N83-17235*	c 71	US-PATENT-CLASS-371-6	N83-20280*	c 39	US-PATENT-CLASS-29-157.3H	N83-24763*	c 33	US-PATENT-APPL-SN-282192
		US-PATENT-4,358,846			US-PATENT-4,372,377			US-PATENT-CLASS-356-357
		NASA-CASE-LEW-13620-1			NASA-CASE-NPO-14864-1			US-PATENT-CLASS-73-147
		US-PATENT-APPL-SN-242796			US-PATENT-APPL-SN-061822			US-PATENT-4,377,343
N83-17588* #	c 20	US-PATENT-CLASS-136-256	N83-20944*	c 07	US-PATENT-CLASS-250-227	N83-27144*	c 34	NASA-CASE-LEW-13174-1
		US-PATENT-CLASS-136-259			US-PATENT-CLASS-250-332			
		US-PATENT-CLASS-259-572			US-PATENT-CLASS-250-340			
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-250-350			
N83-18908*	c 27	US-PATENT-CLASS-427-88	N83-20944*	c 07	US-PATENT-CLASS-250-351	N83-27144*	c 34	
		US-PATENT-CLASS-427-89			US-PATENT-CLASS-350-353			
		US-PATENT-CLASS-427-90			US-PATENT-4,262,198			
		US-PATENT-CLASS-427-91			NASA-CASE-FRC-11065-1			
N83-18908*	c 27	US-PATENT-4,335,196	N83-20944*	c 07	US-PATENT-APPL-SN-248744	N83-27144*	c 34	
		NASA-CASE-ARC-11311-1			US-PATENT-CASE-244-121			
		US-PATENT-APPL-SN-219640			US-PATENT-CASE-244-129.4			
		US-PATENT-CLASS-350-287			US-PATENT-CASE-292-254			
N83-18908*	c 27	US-PATENT-CLASS-350-486	N83-20944*	c 07	US-PATENT-4,375,281	N83-27144*	c 34	
		US-PATENT-4,355,870			NASA-CASE-NPO-14857-1			
		NASA-CASE-LEW-12892-1			US-PATENT-APPL-SN-158530			
		US-PATENT-APPL-SN-264380			US-PATENT-CLASS-523-205			
N83-18908*	c 27	US-PATENT-CLASS-136-255	N83-20944*	c 07	US-PATENT-CLASS-524-436	N83-27144*	c 34	
		US-PATENT-CLASS-136-256			US-PATENT-CLASS-524-437			
		US-PATENT-CLASS-136-259			US-PATENT-CLASS-524-503			
		US-PATENT-4,360,701			US-PATENT-CLASS-524-564			
N83-18908*	c 27	US-PATENT-4,360,701	N83-20944*	c 07	US-PATENT-CLASS-524-786	N83-27144*	c 34	
		NASA-CASE-MSC-18794-1			US-PATENT-4,373,039			
		US-PATENT-APPL-SN-238785			NASA-CASE-NPO-15789-1			
		US-PATENT-CLASS-417-399			US-PATENT-APPL-SN-322316			
N83-18908*	c 27	US-PATENT-CLASS-74-110	N83-20944*	c 07	US-PATENT-CLASS-204-129.55	N83-27144*	c 34	
		US-PATENT-CLASS-74-110			US-PATENT-CLASS-204-129.75			
		US-PATENT-4,360,325			US-PATENT-4,375,396			
		NASA-CASE-LAR-12772-1			NASA-CASE-NPO-14035-1			
N83-18908*	c 27	US-PATENT-APPL-SN-199767	N83-20944*	c 07	US-PATENT-APPL-SN-858767	N83-27144*	c 34	
		US-PATENT-CLASS-73-579			US-PATENT-CLASS-343-100CL			
		US-PATENT-CLASS-73-597			US-PATENT-CLASS-343-5CM			
		US-PATENT-CLASS-73-629			US-PATENT-CLASS-343-9PS			
N83-18908*	c 27	US-PATENT-CLASS-73-761	N83-20944*	c 07	US-PATENT-4,371,873	N83-27144*	c 34	
		US-PATENT-4,363,242			NASA-CASE-MFS-25807			
		NASA-CASE-LAR-12847-1			US-PATENT-APPL-SN-460733			
		US-PATENT-APPL-SN-393456			NASA-CASE-MSC-18929-1			
N83-18908*	c 27	US-PATENT-CLASS-47-58	N83-20944*	c 07	US-PATENT-APPL-SN-198093	N83-27144*	c 34	
		US-PATENT-CLASS-71-98			US-PATENT-CLASS-128-782			
		US-PATENT-4,363,188			US-PATENT-CLASS-358-105			
		NASA-CASE-LAR-12883-1			US-PATENT-CLASS-364-413			
N83-18908*	c 27	US-PATENT-APPL-SN-267935	N83-20944*	c 07	US-PATENT-CLASS-364-522	N83-27144*	c 34	
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-364-559			
		US-PATENT-4,363,237			US-PATENT-CLASS-73-379			
		NASA-CASE-MFS-25312-1			US-PATENT-4,375,674			
N83-18908*	c 27	US-PATENT-APPL-SN-187106	N83-20944*	c 07	NASA-CASE-NPO-15625-1	N83-27144*	c 34	
		US-PATENT-CLASS-350-171			US-PATENT-APPL-SN-325933			
		US-PATENT-4,362,361			US-PATENT-CLASS-148-173			
		NASA-CASE-MFS-25843-1			US-PATENT-CLASS-148-175			
N83-18908*	c 27	US-PATENT-APPL-SN-444125	N83-20944*	c 07	US-PATENT-CLASS-156-608	N83-27144*	c 34	
		NASA-CASE-MSC-18832-1			US-PATENT-CLASS-156-624			
		US-PATENT-APPL-SN-365950			US-PATENT-CLASS-156-635			
		US-PATENT-CLASS-428-241			US-PATENT-CLASS-156-654			
N83-18908*	c 27	US-PATENT-CLASS-428-244	N83-20944*	c 07	US-PATENT-CLASS-156-662	N83-27144*	c 34	
		US-PATENT-CLASS-428-245			US-PATENT-4,373,989			
		US-PATENT-CLASS-428-260			NASA-CASE-MFS-23981-1			
		US-PATENT-CLASS-428-331			US-PATENT-APPL-SN-231543			
N83-18908*	c 27	US-PATENT-CLASS-428-368	N83-20944*	c 07	US-PATENT-CLASS-244-159	N83-27144*	c 34	
		US-PATENT-CLASS-428-902			US-PATENT-CLASS-244-173			
		US-PATENT-CLASS-428-913			US-PATENT-CLASS-322-2R			
					US-PATENT-CLASS-339-3R			
N83-18908*	c 27		N83-20944*	c 07	US-PATENT-CLASS-339-5R	N83-27144*	c 34	

N83-27184*	c 35	US-PATENT-APPL-SN-200634	N83-29032*	c 74	US-PATENT-4,386,157	N83-31895*	c 31	US-PATENT-CLASS-428-678
		US-PATENT-CLASS-415-115			NASA-CASE-KSC-11104-1			US-PATENT-4,335,190
		US-PATENT-CLASS-416-1			US-PATENT-APPL-SN-153245			NASA-CASE-MFS-25134-1
		US-PATENT-CLASS-416-97R			US-PATENT-CLASS-350-96.16			US-PATENT-APPL-SN-195226
N83-27184*	c 35	US-PATENT-4,384,823	N83-29303*	c 18	US-PATENT-CLASS-455-612	N83-31896*	c 31	US-PATENT-CLASS-24-214
		NASA-CASE-NPO-15292-1			US-PATENT-4,381,881			US-PATENT-CLASS-244-159
		US-PATENT-APPL-SN-207135			NASA-CASE-MFS-25403-1			US-PATENT-4,381,583
		US-PATENT-CLASS-250-282			US-PATENT-APPL-SN-248745			NASA-CASE-NPO-14596-3
N83-27344*	c 44	US-PATENT-CLASS-250-288	N83-29324*	c 25	US-PATENT-CLASS-244-115	N83-31897*	c 31	US-PATENT-APPL-SN-303671
		US-PATENT-CLASS-250-423			US-PATENT-CLASS-244-161			US-PATENT-CLASS-264-5
		US-PATENT-4,383,171			US-PATENT-CLASS-269-152			US-PATENT-CLASS-264-9
		NASA-CASE-LEW-13246-1			US-PATENT-CLASS-269-242			US-PATENT-CLASS-425-6
N83-27569*	c 51	US-PATENT-APPL-SN-266255	N83-29388*	c 27	US-PATENT-CLASS-269-244	N83-31918*	c 32	US-PATENT-CLASS-425-6
		US-PATENT-CLASS-429-105			US-PATENT-CLASS-294-86R			US-PATENT-CLASS-65-142
		US-PATENT-CLASS-429-107			US-PATENT-4,391,423			US-PATENT-CLASS-65-214
		US-PATENT-CLASS-429-109			NASA-CASE-GSC-12770-1			US-PATENT-CLASS-65-22
N83-27569*	c 51	US-PATENT-CLASS-429-34	N83-29392* #	c 27	US-PATENT-APPL-SN-301075	N83-31952*	c 33	US-PATENT-4,344,787
		US-PATENT-CLASS-429-40			US-PATENT-CLASS-423-648R			NASA-CASE-NPO-15251-1
		US-PATENT-4,382,116			US-PATENT-CLASS-423-649			US-PATENT-APPL-SN-229239
		NASA-CASE-GSC-12158-1			US-PATENT-4,393,039			US-PATENT-CLASS-337-14
N83-27577*	c 52	US-PATENT-APPL-SN-888434	N83-29625*	c 34	US-PATENT-CLASS-62-3	N83-31953*	c 33	US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-422-52			NASA-CASE-LEW-13132-1			US-PATENT-4,366,680
		US-PATENT-CLASS-435-289			US-PATENT-APPL-SN-272152			NASA-CASE-NPO-14525-2
		US-PATENT-CLASS-435-291			US-PATENT-CLASS-204-35N			US-PATENT-APPL-SN-165910
N83-27577*	c 52	US-PATENT-CLASS-435-3	N83-29650*	c 35	US-PATENT-CLASS-204-37R	N83-31954*	c 33	US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-435-34			US-PATENT-CLASS-204-56R			US-PATENT-CLASS-343-9PS
		US-PATENT-CLASS-435-38			US-PATENT-4,392,920			US-PATENT-CLASS-367-88
		US-PATENT-CLASS-435-39			NASA-CASE-LEW-12876-2			US-PATENT-4,355,311
N83-27577*	c 52	US-PATENT-CLASS-435-8	N83-29651*	c 35	US-PATENT-APPL-SN-393583	N83-31954*	c 33	NASA-CASE-LEW-13429-1
		US-PATENT-CLASS-435-113			NASA-CASE-LEW-12508-3			US-PATENT-APPL-SN-220212
		NASA-CASE-MSC-18761-1			US-PATENT-APPL-SN-235868			US-PATENT-CLASS-315-3
		US-PATENT-APPL-SN-254688			US-PATENT-CLASS-62-3			US-PATENT-CLASS-315-4
N83-27578*	c 52	US-PATENT-CLASS-128-DIG.13	N83-29652*	c 34	US-PATENT-4,392,356	N83-31954*	c 33	US-PATENT-CLASS-315-5
		US-PATENT-CLASS-604-114			NASA-CASE-MFS-25242-1			US-PATENT-CLASS-315-5.35
		US-PATENT-CLASS-604-151			US-PATENT-APPL-SN-246773			US-PATENT-CLASS-315-5.38
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-374-17			US-PATENT-4,395,656
N83-27578*	c 52	US-PATENT-4,384,578	N83-29680*	c 36	US-PATENT-CLASS-73-863.11	N83-31954*	c 33	NASA-CASE-MFS-25215-1
		NASA-CASE-MSC-18759-1			US-PATENT-4,389,904			US-PATENT-APPL-SN-291131
		US-PATENT-APPL-SN-233270			NASA-CASE-LAR-12531-1			US-PATENT-CLASS-318-800
		US-PATENT-CLASS-128-660			US-PATENT-APPL-SN-282191			US-PATENT-CLASS-318-803
N83-27975*	c 05	US-PATENT-CLASS-128-663	N83-29681* #	c 36	US-PATENT-CASE-368-10	N83-31954*	c 33	US-PATENT-CLASS-318-809
		US-PATENT-CLASS-73-597			US-PATENT-CASE-368-118			US-PATENT-4,394,610
		US-PATENT-4,383,533			US-PATENT-CASE-368-119			NASA-CASE-NPO-14940-1
		NASA-CASE-FRC-11072-1			US-PATENT-CASE-368-120			US-PATENT-APPL-SN-135038
N83-28064*	c 18	US-PATENT-APPL-SN-230613	N83-29681* #	c 36	US-PATENT-CASE-368-6	N83-31954*	c 33	US-PATENT-CLASS-324-466
		US-PATENT-CASE-179-146R			US-PATENT-CLASS-368-9			US-PATENT-CLASS-73-861.05
		US-PATENT-CASE-179-179			US-PATENT-4,392,749			US-PATENT-APPL-SN-246774
		US-PATENT-CASE-367-906			NASA-CASE-MSC-18938-1			US-PATENT-CLASS-250-573
N83-28064*	c 18	US-PATENT-4,388,502	N83-29783* #	c 43	US-PATENT-CLASS-55-194	N83-32026*	c 35	US-PATENT-CLASS-73-64.4
		NASA-CASE-GSC-12551-1			US-PATENT-CLASS-55-202			US-PATENT-APPL-SN-408575
		US-PATENT-APPL-SN-182881			US-PATENT-4,392,874			US-PATENT-CLASS-248-636
		US-PATENT-CLASS-244-169			NASA-CASE-MFS-25315-1			US-PATENT-CLASS-248-638
N83-28240*	c 27	US-PATENT-CLASS-244-170	N83-29783* #	c 43	US-PATENT-APPL-SN-224232	N83-32067*	c 37	US-PATENT-CLASS-62-295
		US-PATENT-4,386,750			US-PATENT-CASE-356-129			US-PATENT-CLASS-62-514 R
		NASA-CASE-LAR-12775-1			US-PATENT-4,391,518			US-PATENT-4,394,819
		US-PATENT-APPL-SN-308201			NASA-CASE-GSC-12609-2			NASA-CASE-GSC-12517-1
N83-28240*	c 27	US-PATENT-CLASS-524-104	N83-29991* #	c 52	US-PATENT-APPL-SN-481020	N83-32067*	c 37	US-PATENT-APPL-SN-214361
		US-PATENT-CLASS-524-173			US-PATENT-APPL-SN-508372			US-PATENT-CLASS-104-282
		US-PATENT-CLASS-524-233			NASA-CASE-LAR-13053-1			US-PATENT-CLASS-104-290
		US-PATENT-CLASS-524-726			US-PATENT-APPL-SN-508372			US-PATENT-CLASS-308-10
N83-28319*	c 33	US-PATENT-CLASS-525-181	N83-31603*	c 07	US-PATENT-CLASS-415-1	N83-32067*	c 37	US-PATENT-CLASS-310-12
		US-PATENT-CLASS-525-183			US-PATENT-CLASS-415-175			US-PATENT-4,387,935
		US-PATENT-CLASS-525-184			US-PATENT-CLASS-415-178			NASA-CASE-LAR-12602-1
		US-PATENT-CLASS-525-474			US-PATENT-CLASS-415-47			US-PATENT-APPL-SN-210506
N83-28319*	c 33	US-PATENT-4,389,504	N83-31743*	c 25	US-PATENT-4,338,061	N83-32175*	c 44	US-PATENT-CLASS-374-51
		NASA-CASE-MFS-25302-1			NASA-CASE-NPO-15304-1			US-PATENT-CLASS-73-818
		US-PATENT-APPL-SN-243683			US-PATENT-APPL-SN-315587			US-PATENT-CLASS-73-822
		US-PATENT-CLASS-322-29			US-PATENT-CLASS-201-17			US-PATENT-CLASS-73-856
N83-28356*	c 34	US-PATENT-CLASS-322-35	N83-31795*	c 26	US-PATENT-CLASS-44-1SR	N83-32176*	c 44	US-PATENT-CLASS-73-860
		US-PATENT-CLASS-322-47			US-PATENT-4,391,609			US-PATENT-4,393,716
		US-PATENT-CLASS-322-95			NASA-CASE-LEW-13343			NASA-CASE-LEW-12443-1
		US-PATENT-4,388,585			US-PATENT-APPL-SN-293418			US-PATENT-APPL-SN-235797
N83-28356*	c 34	US-PATENT-CLASS-165-32	N83-31854*	c 27	US-PATENT-CLASS-427-318	N83-32177*	c 44	US-PATENT-CLASS-310-306
		US-PATENT-CLASS-165-76			US-PATENT-CLASS-427-419.2			US-PATENT-4,373,142
		US-PATENT-4,388,965			US-PATENT-CLASS-428-450			NASA-CASE-LEW-13171-2
		NASA-CASE-LAR-12495-1			US-PATENT-CLASS-428-469			US-PATENT-APPL-SN-333537
N83-28573*	c 44	US-PATENT-APPL-SN-263830	N83-31854*	c 27	US-PATENT-CLASS-428-641	N83-32177*	c 44	US-PATENT-CLASS-29-623.5
		US-PATENT-CLASS-310-11			US-PATENT-CLASS-428-650			US-PATENT-CLASS-429-144
		US-PATENT-4,388,542			US-PATENT-CLASS-428-680			US-PATENT-CLASS-429-251
		NASA-CASE-GSC-12697-1			US-PATENT-4,374,183			US-PATENT-4,371,596
N83-28574*	c 44	US-PATENT-APPL-SN-308204	N83-31854*	c 27	US-PATENT-CLASS-548-413	N83-32177*	c 44	US-PATENT-APPL-SN-359388
		US-PATENT-CLASS-308-10			US-PATENT-APPL-SN-288267			US-PATENT-CLASS-136-249
		US-PATENT-CLASS-310-15			US-PATENT-CLASS-548-415			US-PATENT-CLASS-357-30
		US-PATENT-CLASS-417-417			US-PATENT-CLASS-548-415			US-PATENT-4,376,872
N83-28574*	c 44	US-PATENT-CLASS-62-6	N83-31855*	c 27	US-PATENT-4,395,557	N83-32232*	c 47	NASA-CASE-NPO-14936-1
		US-PATENT-4,389,849			NASA-CASE-LEW-1335901			US-PATENT-APPL-SN-163837
		NASA-CASE-ARC-11322-1			US-PATENT-APPL-SN-229233			US-PATENT-CLASS-250-203R
		US-PATENT-APPL-SN-315278			US-PATENT-CLASS-427-219.2			US-PATENT-CLASS-356-222
N83-28849*	c 51	US-PATENT-CLASS-435-3	N83-31855*	c 27	US-PATENT-CLASS-427-34	N83-32342*	c 60	US-PATENT-4,355,896
		US-PATENT-CLASS-435-34			US-PATENT-CLASS-427-405			NASA-CASE-NPO-15342-1
		US-PATENT-CLASS-435-38			US-PATENT-CLASS-427-423			
		US-PATENT-CLASS-435-39			US-PATENT-CLASS-428-623			
N83-28849*	c 51	US-PATENT-CLASS-435-807	N83-31855*	c 27	US-PATENT-CLASS-428-633	N83-32342*	c 60	

		US-PATENT-APPL-SN-258623				US-PATENT-APPL-SN-276748				US-PATENT-CLASS-318-806
		US-PATENT-CLASS-364-200				US-PATENT-CLASS-315-208				US-PATENT-4,401,934
		US-PATENT-CLASS-364-900				US-PATENT-CLASS-315-224	N83-35307*	c 34		NASA-CASE-GSC-12812-1
		US-PATENT-4,394,726				US-PATENT-CLASS-315-225				US-PATENT-APPL-SN-434674
N83-32515*	c 71	NASA-CASE-NPO-15453-1				US-PATENT-CLASS-315-237				US-PATENT-CLASS-165-104,26
		US-PATENT-APPL-SN-314929				US-PATENT-CLASS-315-241R				US-PATENT-CLASS-165-32
		US-PATENT-CLASS-60-721				US-PATENT-CLASS-372-25				US-PATENT-4,402,358
		US-PATENT-CLASS-73-505				US-PATENT-4,398,129	N83-35338*	c 35		NASA-CASE-LEW-13934-1
		US-PATENT-4,393,708	N83-34190*	c 33		NASA-CASE-MFS-25607-1				US-PATENT-APPL-SN-212949
N83-32516*	c 71	NASA-CASE-NPO-15522-1				US-PATENT-APPL-SN-325886				US-PATENT-CLASS-228-103
		US-PATENT-APPL-SN-303672				US-PATENT-CLASS-361-90				US-PATENT-CLASS-228-193
		US-PATENT-CLASS-60-721				US-PATENT-CLASS-318-729				US-PATENT-CLASS-228-263,18
		US-PATENT-CLASS-73-505				US-PATENT-CLASS-318-798				US-PATENT-CLASS-415-118
		US-PATENT-4,393,706				US-PATENT-CLASS-318-806				US-PATENT-4,402,447
N83-32577*	c 74	NASA-CASE-GSC-12614-1				US-PATENT-CLASS-361-100	N83-35350*	c 36		NASA-CASE-NPO-15201-1
		US-PATENT-APPL-SN-195227				US-PATENT-CLASS-363-54				US-PATENT-APPL-SN-246778
		US-PATENT-CLASS-356-353				US-PATENT-4,400,657				US-PATENT-CLASS-330-4
		US-PATENT-CLASS-356-363	N83-34191*	c 33		NASA-CASE-GSC-12646-1				US-PATENT-CLASS-332-7.5
		US-PATENT-4,395,123				US-PATENT-APPL-SN-284290				US-PATENT-CLASS-333-24.2
N83-33882*	c 06	NASA-CASE-FRC-11043-1				US-PATENT-CLASS-330-289				US-PATENT-4,399,415
		US-PATENT-APPL-SN-242790				US-PATENT-CLASS-330-310	N83-35781*	c 71		NASA-CASE-NPO-15334-1
		US-PATENT-CLASS-33-322				US-PATENT-4,401,953				US-PATENT-APPL-SN-341406
		US-PATENT-CLASS-74-5.34	N83-34221*	c 34		NASA-CASE-LAR-12393-1				US-PATENT-CLASS-210-748
		US-PATENT-4,387,513				US-PATENT-APPL-SN-145208				US-PATENT-CLASS-252-361
N83-33884*	c 07	NASA-CASE-ARC-10812-1				US-PATENT-CLASS-165-27				US-PATENT-CLASS-366-114
		US-PATENT-APPL-SN-657903				US-PATENT-CLASS-165-12				US-PATENT-CLASS-55-15
		US-PATENT-CLASS-181-213				US-PATENT-CLASS-165-61				US-PATENT-CLASS-55-277
		US-PATENT-CLASS-239-265,17				US-PATENT-CLASS-165-80E				US-PATENT-CLASS-55-38
		US-PATENT-CLASS-60-262				US-PATENT-CLASS-374-46				US-PATENT-CLASS-55-52
		US-PATENT-CLASS-60-269				US-PATENT-CLASS-62-514R				US-PATENT-CLASS-65-134
		US-PATENT-CLASS-60-271				US-PATENT-CLASS-62-62				US-PATENT-4,398,925
		US-PATENT-4,372,110	N83-34272*	c 35		US-PATENT-4,346,754	N83-35888*	c 76		NASA-CASE-NPO-15530-1
N83-33950*	c 24	NASA-CASE-NPO-14987-1				NASA-CASE-ARC-11317-1				US-PATENT-APPL-SN-364092
		US-PATENT-APPL-SN-164-584				US-PATENT-APPL-SN-229231				US-PATENT-CLASS-156-DIG.6
		US-PATENT-CLASS-427-215				US-PATENT-CLASS-340-518				US-PATENT-CLASS-156-DIG.73
		US-PATENT-CLASS-427-241				US-PATENT-CLASS-340-566				US-PATENT-CLASS-156-608
		US-PATENT-CLASS-428-367				US-PATENT-4,374,378				US-PATENT-4,401,505
		US-PATENT-CLASS-428-375	N83-34304*	c 36		NASA-CASE-ARC-11312-1	N83-35992*	c 01		NASA-CASE-LAR-12624-1
		US-PATENT-CLASS-428-392				US-PATENT-APPL-SN-234224				US-PATENT-APPL-SN-259209
		US-PATENT-CLASS-428-902				US-PATENT-CLASS-356-1				US-PATENT-CLASS-102-378
		US-PATENT-CLASS-428-903				US-PATENT-CLASS-356-4				US-PATENT-CLASS-244-137P
		US-PATENT-4,359,503				US-PATENT-CLASS-358-104				US-PATENT-CLASS-89-1B
N83-33977*	c 25	NASA-CASE-ARC-11326-1				US-PATENT-CLASS-358-109				US-PATENT-4,407,468
		US-PATENT-APPL-SN-178192				US-PATENT-CLASS-434-38	N83-36029*	c 07		NASA-CASE-LEW-13142-1
		US-PATENT-CLASS-252-5				US-PATENT-CLASS-434-4				US-PATENT-APPL-SN-132364
		US-PATENT-CLASS-423-419P				US-PATENT-4,391,514				US-PATENT-CLASS-60-39,07
		US-PATENT-CLASS-423-600	N83-34323*	c 37		NASA-CASE-GSC-12726-1				US-PATENT-4,404,793
		US-PATENT-CLASS-424-156				US-PATENT-APPL-SN-364093	N83-36118*	c 25		NASA-CASE-ARC-11252-1
		US-PATENT-4,356,157				US-PATENT-CLASS-308-10				US-PATENT-APPL-SN-317977
N83-34039*	c 27	NASA-CASE-GSC-12686-1				US-PATENT-4,381,375				US-PATENT-CLASS-169-47
		US-PATENT-APPL-SN-293412	N83-34448*	c 44		NASA-CASE-ARC-11164-1				US-PATENT-CLASS-252-2
		US-PATENT-CLASS-427-322				US-PATENT-APPL-SN-308007				US-PATENT-CLASS-252-5
		US-PATENT-CLASS-427-340				US-PATENT-CLASS-350-166				US-PATENT-4,406,797
		US-PATENT-CLASS-427-352				US-PATENT-CLASS-428-312.6	N83-36220*	c 27		NASA-CASE-MFS-25436-1
		US-PATENT-CLASS-427-400				US-PATENT-CLASS-428-325				US-PATENT-APPL-SN-280151
		US-PATENT-CLASS-427-407.1				US-PATENT-CLASS-428-427				US-PATENT-CLASS-156-DIG.73
		US-PATENT-4,362,769				US-PATENT-CLASS-428-428				US-PATENT-CLASS-156-DIG.89
N83-34040*	c 27	NASA-CASE-LAR-12838-1				US-PATENT-4,381,333				US-PATENT-CLASS-156-600
		US-PATENT-APPL-SN-320621	N83-34449*	c 44		NASA-CASE-LAR-12719-1				US-PATENT-CLASS-156-610
		US-PATENT-CLASS-526-259				US-PATENT-APPL-SN-367134				US-PATENT-CLASS-165-2
		US-PATENT-CLASS-526-285				US-PATENT-CLASS-126-901				US-PATENT-CLASS-165-58
		US-PATENT-CLASS-528-12				US-PATENT-CLASS-204-33				US-PATENT-CLASS-219-343
		US-PATENT-CLASS-528-125				US-PATENT-CLASS-204-35N				US-PATENT-CLASS-219-354
		US-PATENT-CLASS-528-126				US-PATENT-4,397,716				US-PATENT-CLASS-219-390
		US-PATENT-CLASS-528-128	N83-34796*	c 76		NASA-CASE-LEW-12582-1				US-PATENT-CLASS-219-411
		US-PATENT-CLASS-528-220				US-PATENT-APPL-SN-397281				US-PATENT-CLASS-350-316
		US-PATENT-CLASS-528-222				US-PATENT-CLASS-310-332				US-PATENT-4,408,658
		US-PATENT-CLASS-528-228				US-PATENT-CLASS-310-800	N83-36355*	c 33		NASA-CASE-GSC-12630-1
		US-PATENT-CLASS-528-229				US-PATENT-CLASS-428-294				US-PATENT-APPL-SN-308009
		US-PATENT-CLASS-528-38				US-PATENT-CLASS-428-421				US-PATENT-CLASS-343-100AP
		US-PATENT-4,375,536				US-PATENT-CLASS-428-422				US-PATENT-CLASS-343-840
N83-34041*	c 27	NASA-CASE-LAR-12858-1				US-PATENT-4,400,642				US-PATENT-4,407,001
		US-PATENT-APPL-SN-407240	N83-35176*	c 31		NASA-CASE-NPO-15070-1	N83-36356*	c 33		NASA-CASE-KSC-11170-1
		US-PATENT-CLASS-164-331.12				US-PATENT-APPL-SN-403847				US-PATENT-APPL-SN-284288
		US-PATENT-CLASS-264-137				US-PATENT-CLASS-264-12				US-PATENT-CLASS-330-110
		US-PATENT-CLASS-264-258				US-PATENT-CLASS-264-24				US-PATENT-CLASS-330-282
		US-PATENT-CLASS-264-331.46				US-PATENT-CLASS-264-5				US-PATENT-4,406,989
		US-PATENT-CLASS-528-222				US-PATENT-CLASS-425-10	N83-36357*	c 33		NASA-CASE-LAR-12654-1
		US-PATENT-CLASS-528-226				US-PATENT-CLASS-425-6				US-PATENT-APPL-SN-234225
		US-PATENT-4,398,021				US-PATENT-CLASS-425-7				US-PATENT-CLASS-368-184
N83-34043*	c 27	NASA-CASE-NPO-15202-1				US-PATENT-CLASS-65-142				US-PATENT-CLASS-368-200
		US-PATENT-APPL-SN-233271				US-PATENT-CLASS-65-21.3				US-PATENT-CLASS-368-201
		US-PATENT-CLASS-384-124				US-PATENT-CLASS-65-21.4				US-PATENT-4,407,589
		US-PATENT-CLASS-523-440				US-PATENT-CLASS-65-22	N83-36482*	c 37		NASA-CASE-MSC-18791-1
		US-PATENT-CLASS-523-443				US-PATENT-4,400,191				US-PATENT-APPL-SN-248746
		US-PATENT-4,395,503	N83-35177*	c 31		NASA-CASE-LEW-13450-1				US-PATENT-CLASS-29-446
N83-34073*	c 31	NASA-CASE-ARC-11246-1				US-PATENT-APPL-SN-328760				US-PATENT-CLASS-73-862.54
		US-PATENT-APPL-SN-136660				US-PATENT-CLASS-427-243				US-PATENT-CLASS-81-55
		US-PATENT-CLASS-156-264				US-PATENT-CLASS-427-247				US-PATENT-CLASS-81-57.38
		US-PATENT-CLASS-156-344				US-PATENT-CLASS-427-34				US-PATENT-4,407,165
		US-PATENT-CLASS-156-59				US-PATENT-CLASS-427-423	N83-36483*	c 37		NASA-CASE-MSC-18807-1
		US-PATENT-CLASS-273-240				US-PATENT-4,402,992				US-PATENT-APPL-SN-266688
		US-PATENT-CLASS-434-403	N83-35227*	c 33		NASA-CASE-MFS-25209-1				US-PATENT-CLASS-123-197R
		US-PATENT-CLASS-434-88				US-PATENT-APPL-SN-291132				US-PATENT-CLASS-123-78E
		US-PATENT-4,385,949				US-PATENT-CLASS-318-685				US-PATENT-4,406,256
N83-34189*	c 33	NASA-CASE-GSC-12566-1				US-PATENT-CLASS-318-798	N83-36846*	c 71		NASA-CASE-NPO-15435-1

		US-PATENT-APPL-SN-272837		US-PATENT-APPL-SN-322314		US-PATENT-CLASS-339-258RR		
		US-PATENT-CLASS-308-10		US-PATENT-CLASS-156-215		US-PATENT-CLASS-339-262RR		
		US-PATENT-CLASS-73-505		US-PATENT-CLASS-156-230		US-PATENT-CLASS-339-64M		
N83-36898*	c 74	US-PATENT-4,402,221		US-PATENT-CLASS-156-235		US-PATENT-4,421,371		
		NASA-CASE-GSC-12683-1		US-PATENT-CLASS-156-294	N84-14424*	c 33	NASA-CASE-MFS-25477-1	
		US-PATENT-APPL-SN-333535		US-PATENT-CLASS-156-391			US-PATENT-APPL-SN-243683	
		US-PATENT-CLASS-350-173		US-PATENT-CLASS-156-423			US-PATENT-APPL-SN-297524	
		US-PATENT-CLASS-350-445		US-PATENT-CLASS-156-540			US-PATENT-APPL-SN-350472	
		US-PATENT-4,407,563		US-PATENT-CLASS-156-71			US-PATENT-CLASS-318-729	
N84-11136*	c 02	NASA-CASE-LAR-12843-1		US-PATENT-CLASS-338-2			US-PATENT-CLASS-318-798	
		US-PATENT-APPL-SN-392096		US-PATENT-4,407,686			US-PATENT-CLASS-318-806	
		US-PATENT-CLASS-244-35A	N84-12444*	c 35	NASA-CASE-LAR-12706-1		US-PATENT-4,417,190	
		US-PATENT-CLASS-244-35R			US-PATENT-APPL-SN-210498	N84-14461*	c 34	NASA-CASE-GSC-12771-1
		US-PATENT-CLASS-416-223R			US-PATENT-CLASS-324-250			US-PATENT-APPL-SN-434672
		US-PATENT-CLASS-416-242			US-PATENT-CLASS-328-230			US-PATENT-CLASS-165-32
		US-PATENT-4,412,664			US-PATENT-CLASS-372-74			US-PATENT-CLASS-165-41
N84-11213*	c 24	NASA-CASE-ARC-11418-1			US-PATENT-4,414,509			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-452464	N84-12445*	c 35	NASA-CASE-LAR-12882-1			US-PATENT-4,420,035
		US-PATENT-CLASS-523-435			US-PATENT-APPL-SN-267179	N84-14491*	c 35	NASA-CASE-LAR-12686-1
		US-PATENT-CLASS-523-456			US-PATENT-CLASS-364-415			US-PATENT-APPL-SN-249304
		US-PATENT-CLASS-528-110			US-PATENT-CLASS-73-646			US-PATENT-CLASS-364-557
		US-PATENT-CLASS-528-361			US-PATENT-CLASS-73-658			US-PATENT-CLASS-364-558
		US-PATENT-4,410,682			US-PATENT-4,413,522			US-PATENT-CLASS-364-571
N84-11214*	c 24	NASA-CASE-LAR-12807-1	N84-12491*	c 37	NASA-CASE-GSC-12619-1			US-PATENT-CLASS-73-714
		US-PATENT-APPL-SN-280155			US-PATENT-APPL-SN-225499			US-PATENT-4,399,515
		US-PATENT-CLASS-228-157			US-PATENT-CLASS-101-407BP	N84-14509*	c 36	NASA-CASE-GSC-12565-1
		US-PATENT-CLASS-228-181			US-PATENT-CLASS-269-3			US-PATENT-APPL-SN-270763
		US-PATENT-CLASS-228-212			US-PATENT-4,393,777			US-PATENT-CLASS-350-299
		US-PATENT-CLASS-244-119	N84-12492*	c 37	NASA-CASE-GSC-12622-1			US-PATENT-CLASS-356-345
		US-PATENT-CLASS-244-123			US-PATENT-APPL-SN-243684			US-PATENT-CLASS-372-100
		US-PATENT-CLASS-428-593			US-PATENT-CLASS-308-2A			US-PATENT-CLASS-372-108
		US-PATENT-CLASS-52-806			US-PATENT-4,405,184			US-PATENT-CLASS-372-93
		US-PATENT-CLASS-52-808	N84-12493*	c 37	NASA-CASE-LAR-12923-1			US-PATENT-CLASS-372-94
		US-PATENT-4,411,380			US-PATENT-APPL-SN-383063			US-PATENT-CLASS-372-98
N84-11497*	c 37	NASA-CASE-MFS-25678-1			US-PATENT-CLASS-416-117			US-PATENT-4,420,836
		US-PATENT-APPL-SN-378533			US-PATENT-CLASS-416-132B	N84-14583*	c 44	NASA-CASE-NPO-15100-1
		US-PATENT-CLASS-277-116.6			US-PATENT-4,415,311			US-PATENT-APPL-SN-259211
		US-PATENT-CLASS-277-124	N84-12654*	c 45	NASA-CASE-NSTL-10			US-PATENT-CLASS-138-42
		US-PATENT-CLASS-277-164			US-PATENT-APPL-SN-335036			US-PATENT-CLASS-251-127
		US-PATENT-CLASS-277-177			US-PATENT-CLASS-210-151			US-PATENT-4,418,722
		US-PATENT-CLASS-277-190			US-PATENT-CLASS-210-602	N84-14873*	c 71	NASA-CASE-LAR-11903-2
		US-PATENT-4,410,189			US-PATENT-CLASS-210-605			US-PATENT-APPL-SN-238791
N84-11744*	c 52	NASA-CASE-MFS-25740-1			US-PATENT-CLASS-210-617			US-PATENT-APPL-SN-753971
		US-PATENT-APPL-SN-371352			US-PATENT-CLASS-47-58			US-PATENT-CLASS-239-265.17
		US-PATENT-CLASS-128-DIG.25			US-PATENT-4,415,450			US-PATENT-4,398,667
		US-PATENT-CLASS-128-1R	N84-12968* #	c 76	NASA-CASE-NPO-15811-1	N84-16231*	c 15	NASA-CASE-LAR-127511-1
		US-PATENT-CLASS-128-346			US-PATENT-APPL-SN-547175			US-PATENT-APPL-SN-338386
		US-PATENT-4,408,597	N84-14132*	c 04	NASA-CASE-LAR-12638-1			US-PATENT-CLASS-73-167
N84-11758*	c 54	NASA-CASE-MSC-18223-2			US-PATENT-APPL-SN-367187			US-PATENT-CLASS-73-432R
		US-PATENT-APPL-SN-219681			US-PATENT-CLASS-33-DIG.3			US-PATENT-CLASS-73-9
		US-PATENT-APPL-SN-368187			US-PATENT-CLASS-33-348			US-PATENT-4,425,785
		US-PATENT-CLASS-604-368			US-PATENT-CLASS-33-356	N84-16255*	c 23	NASA-CASE-NPO-15767-1
		US-PATENT-CLASS-604-378			US-PATENT-CLASS-33-361			US-PATENT-APPL-SN-315584
		US-PATENT-CLASS-604-396			US-PATENT-4,418,480			US-PATENT-CLASS-208-10
		US-PATENT-4,338,371	N84-14322*	c 27	NASA-CASE-ARC-11400-1			US-PATENT-CLASS-208-8LE
		US-PATENT-4,411,660			US-PATENT-APPL-SN-441899			US-PATENT-4,388,171
N84-11920*	c 74	NASA-CASE-GSC-12640-1			US-PATENT-CLASS-428-246	N84-16262*	c 24	NASA-CASE-MSC-16934-3
		US-PATENT-APPL-SN-267178			US-PATENT-CLASS-428-260			US-PATENT-APPL-SN-185868
		US-PATENT-CLASS-250-363R			US-PATENT-CLASS-428-367			US-PATENT-APPL-SN-361711
		US-PATENT-CLASS-250-363S			US-PATENT-CLASS-428-408			US-PATENT-APPL-SN-969757
		US-PATENT-CLASS-250-368			US-PATENT-CLASS-428-473.5			US-PATENT-CLASS-164-119
		US-PATENT-CLASS-378-2			US-PATENT-CLASS-428-902			US-PATENT-CLASS-264-118
		US-PATENT-4,404,469			US-PATENT-CLASS-428-920			US-PATENT-CLASS-264-59
N84-11921*	c 74	NASA-CASE-NPO-15375-1			US-PATENT-CLASS-524-494			US-PATENT-CLASS-264-60
		US-PATENT-APPL-SN-210405			US-PATENT-CLASS-524-496			US-PATENT-4,421,700
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-524-500	N84-16276*	c 25	NASA-CASE-LEW-13426-1
		US-PATENT-CLASS-3-1.1			US-PATENT-CLASS-524-530			US-PATENT-APPL-SN-393588
		US-PATENT-CLASS-350-96.10			US-PATENT-CLASS-525-282			US-PATENT-CLASS-110-186
		US-PATENT-CLASS-350-96.15			US-PATENT-CLASS-525-287			US-PATENT-CLASS-110-262
		US-PATENT-CLASS-73-432T			US-PATENT-4,421,820			US-PATENT-CLASS-110-263
		US-PATENT-4,405,197	N84-14323*	c 27	NASA-CASE-LAR-12881-1			US-PATENT-CLASS-110-265
N84-12154*	c 05	NASA-CASE-LAR-12615-1			US-PATENT-APPL-SN-361215			US-PATENT-CLASS-431-1
		US-PATENT-APPL-SN-263829			US-PATENT-CLASS-206-447			US-PATENT-4,425,854
		US-PATENT-CLASS-244-13			US-PATENT-CLASS-206-582	N84-16452*	c 33	NASA-CASE-LEW-13570-1
		US-PATENT-CLASS-244-45R			US-PATENT-CLASS-428-202			US-PATENT-APPL-SN-251009
		US-PATENT-CLASS-244-53R			US-PATENT-CLASS-428-347			US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-244-55			US-PATENT-CLASS-428-40			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-244-91			US-PATENT-CLASS-428-78			US-PATENT-CLASS-315-39.3
		US-PATENT-4,415,133			US-PATENT-4,420,518			US-PATENT-CLASS-333-162
N84-12193* #	c 09	NASA-CASE-ARC-11426-1	N84-14324*	c 27	NASA-CASE-MSC-18382-2			US-PATENT-4,422,012
		US-PATENT-APPL-SN-526741			US-PATENT-APPL-SN-241155	N84-16453*	c 33	NASA-CASE-MFS-25430-1
N84-12262*	c 25	NASA-CASE-NPO-15458-1			US-PATENT-CLASS-524-371			US-PATENT-APPL-SN-383083
		US-PATENT-APPL-SN-376306			US-PATENT-4,395,511			US-PATENT-CLASS-363-25
		US-PATENT-CLASS-204-DIG.3	N84-14421*	c 33	NASA-CASE-GSC-12650-1			US-PATENT-CLASS-363-65
		US-PATENT-CLASS-204-129			US-PATENT-APPL-SN-301077			US-PATENT-CLASS-363-67
		US-PATENT-CLASS-204-242			US-PATENT-CLASS-330-107			US-PATENT-CLASS-363-71
		US-PATENT-CLASS-204-278			US-PATENT-CLASS-330-109			US-PATENT-4,426,678
		US-PATENT-CLASS-204-290R			US-PATENT-4,417,215	N84-16454*	c 33	NASA-CASE-GSC-12645-1
		US-PATENT-CLASS-427-443.2			US-PATENT-4,418,130			US-PATENT-APPL-SN-284314
		US-PATENT-CLASS-429-111	N84-14422*	c 33	NASA-CASE-LEW-13286-1			US-PATENT-CLASS-324-79R
		US-PATENT-4,414,080			US-PATENT-APPL-SN-272406			US-PATENT-CLASS-324-83A
N84-12406*	c 34	NASA-CASE-MFS-25631-1			US-PATENT-CLASS-252-182.1			US-PATENT-CLASS-324-83R
		US-PATENT-APPL-SN-308203			US-PATENT-CLASS-429-206			US-PATENT-CLASS-328-133
		US-PATENT-CLASS-239-426			US-PATENT-CLASS-429-229			US-PATENT-CLASS-330-289
		US-PATENT-4,413,784	N84-14423*	c 33	NASA-CASE-MFS-25211-2			US-PATENT-4,425,543
N84-12443*	c 35	NASA-CASE-FRC-11068-1			US-PATENT-APPL-SN-432057	N84-16455*	c 33	NASA-CASE-MFS-25616-1

			US-PATENT-APPL-SN-325932				US-PATENT-CLASS-244-215				US-PATENT-APPL-SN-433598
			US-PATENT-CLASS-318-799				US-PATENT-CLASS-244-216				US-PATENT-CLASS-524-171
			US-PATENT-CLASS-323-243				US-PATENT-CLASS-244-219				US-PATENT-CLASS-525-534
			US-PATENT-CLASS-323-246				US-PATENT-4,444,368				US-PATENT-CLASS-525-535
			US-PATENT-4,426,614				NASA-CASE-LEW-13622-1				US-PATENT-CLASS-525-536
N84-16456*	c 33		NASA-CASE-NPO-15161-1	N84-22559*	c 07		US-PATENT-APPL-SN-350473				US-PATENT-CLASS-528-25
			US-PATENT-APPL-SN-325083				US-PATENT-CLASS-364-558				US-PATENT-CLASS-528-26
			US-PATENT-CLASS-427-216				US-PATENT-CLASS-73-115				US-PATENT-4,431,761
			US-PATENT-CLASS-427-217				US-PATENT-4,428,226	N84-22748*	c 27		NASA-CASE-NPO-15640-1
			US-PATENT-CLASS-427-226	N84-22560*	c 07		NASA-CASE-LEW-13654-1				US-PATENT-APPL-SN-465367
			US-PATENT-CLASS-427-376.6				US-PATENT-APPL-SN-245571				US-PATENT-CLASS-156-304.3
			US-PATENT-CLASS-427-376.7				US-PATENT-CLASS-416-224				US-PATENT-CLASS-156-304.6
			US-PATENT-CLASS-427-436				US-PATENT-CLASS-416-233				US-PATENT-CLASS-156-499
			US-PATENT-CLASS-427-437				US-PATENT-CLASS-416-92				US-PATENT-CLASS-156-81
			US-PATENT-CLASS-427-58				US-PATENT-CLASS-416-97R				US-PATENT-CLASS-156-89
			US-PATENT-CLASS-427-75				US-PATENT-4,411,597				US-PATENT-4,420,352
			US-PATENT-CLASS-427-88	N84-22601*	c 16		NASA-CASE-MSC-20254-1	N84-22749*	c 27		NASA-CASE-LAR-12980-1
			US-PATENT-CLASS-427-96				US-PATENT-APPL-SN-418137				US-PATENT-APPL-SN-469866
N84-16523*	c 35		US-PATENT-4,388,346				US-PATENT-CLASS-244-158A				US-PATENT-CLASS-528-125
			NASA-CASE-LAR-12007-3				US-PATENT-CLASS-52-404				US-PATENT-CLASS-528-128
			US-PATENT-APPL-SN-352831				US-PATENT-CLASS-52-506				US-PATENT-CLASS-528-172
			US-PATENT-CLASS-33-293				US-PATENT-4,439,968				US-PATENT-CLASS-528-184
			US-PATENT-4,428,122	N84-22605*	c 18		NASA-CASE-MSC-18969-1				US-PATENT-4,444,979
N84-16542*	c 36		NASA-CASE-LAR-12870-1				US-PATENT-APPL-SN-368189	N84-22750*	c 27		NASA-CASE-ARC-11370-1
			US-PATENT-APPL-SN-317658				US-PATENT-CLASS-244-161				US-PATENT-APPL-SN-491125
			US-PATENT-CLASS-372-55				US-PATENT-CLASS-403-322				US-PATENT-CLASS-525-389
			US-PATENT-CLASS-372-79				US-PATENT-4,431,333				US-PATENT-CLASS-528-394
			US-PATENT-4,424,592	N84-22609* #	c 18		NASA-CASE-MFS-15429-1				US-PATENT-CLASS-528-399
N84-16560*	c 37		NASA-CASE-MFS-25510-1				US-PATENT-APPL-SN-596959				US-PATENT-CLASS-528-399
			US-PATENT-APPL-SN-293414	N84-22610* #	c 18		NASA-CASE-MSC-20543-1				US-PATENT-CLASS-528-7
			US-PATENT-CLASS-248-228				US-PATENT-APPL-SN-580574				US-PATENT-CLASS-568-4
			US-PATENT-4,422,609	N84-22612* #	c 18		NASA-CASE-ARC-11505-1				US-PATENT-CLASS-568-5
N84-16561*	c 37		NASA-CASE-LAR-12785-1				US-PATENT-APPL-SN-588036				US-PATENT-4,444,972
			US-PATENT-APPL-SN-297488	N84-22695*	c 24		NASA-CASE-LEW-13837-1	N84-22820*	c 32		NASA-CASE-MSC-18675-1
			US-PATENT-CLASS-239-568				US-PATENT-APPL-SN-495381				US-PATENT-APPL-SN-266687
			US-PATENT-CLASS-241-95				US-PATENT-CLASS-204-192C				US-PATENT-CLASS-343-17.5
			US-PATENT-CLASS-406-155				US-PATENT-CLASS-204-192R				US-PATENT-CLASS-343-9R
			US-PATENT-4,428,703				US-PATENT-CLASS-204-192SP				US-PATENT-4,439,766
N84-16803*	c 54		NASA-CASE-MSC-20202-1				US-PATENT-CLASS-423-DIG.10	N84-22884*	c 33		NASA-CASE-MFS-256704-1
			US-PATENT-APPL-SN-414106				US-PATENT-CLASS-423-414				US-PATENT-APPL-SN-409679
			US-PATENT-CLASS-128-1A				US-PATENT-CLASS-423-445				US-PATENT-CLASS-204-192EC
			US-PATENT-CLASS-128-15R				US-PATENT-CLASS-423-446				US-PATENT-4,437,961
			US-PATENT-CLASS-128-38				US-PATENT-CLASS-423-449	N84-22885*	c 33		NASA-CASE-MFS-25535-2
			US-PATENT-4,421,109				US-PATENT-4,437,962				US-PATENT-APPL-SN-476244
N84-16940*	c 71		NASA-CASE-NPO-15592-1	N84-22709*	c 25		NASA-CASE-NPO-15210-1				US-PATENT-CLASS-318-438
			US-PATENT-APPL-SN-314702				US-PATENT-APPL-SN-322312				US-PATENT-CLASS-318-729
			US-PATENT-CLASS-118-300				US-PATENT-CLASS-208-10				US-PATENT-CLASS-318-798
			US-PATENT-CLASS-118-50				US-PATENT-CLASS-208-8LE				US-PATENT-CLASS-318-805
			US-PATENT-CLASS-118-50.1				US-PATENT-4,443,321				US-PATENT-CLASS-318-810
			US-PATENT-CLASS-118-500	N84-22734*	c 26		NASA-CASE-LEW-13349-1	N84-22886*	c 33		US-PATENT-4,433,276
			US-PATENT-CLASS-118-57				US-PATENT-APPL-SN-350476				NASA-CASE-MFS-25323-1
			US-PATENT-CLASS-118-62				US-PATENT-CLASS-29-623.5				US-PATENT-APPL-SN-297524
			US-PATENT-CLASS-427-346				US-PATENT-CLASS-427-115				US-PATENT-CLASS-318-729
			US-PATENT-CLASS-427-421				US-PATENT-CLASS-427-125				US-PATENT-CLASS-318-812
			US-PATENT-CLASS-427-426				US-PATENT-CLASS-427-126.6				US-PATENT-4,439,718
			US-PATENT-CLASS-427-57				US-PATENT-CLASS-427-296	N84-22887*	c 33		NASA-CASE-GSC-12567-1
			US-PATENT-CLASS-427-6				US-PATENT-CLASS-427-306				US-PATENT-APPL-SN-373839
			US-PATENT-CLASS-65-213				US-PATENT-CLASS-429-223				US-PATENT-CLASS-330-109
			US-PATENT-4,425,376				US-PATENT-CLASS-429-234				US-PATENT-CLASS-330-277
N84-16959* #	c 72		NASA-CASE-NPO-15547-1				US-PATENT-4,439,465				US-PATENT-CLASS-330-294
			US-PATENT-APPL-SN-276076	N84-22744*	c 27		NASA-CASE-ARC-11402-1				US-PATENT-4,437,069
N84-17555*	c 35		NASA-CASE-NPO-15426-1				US-PATENT-APPL-SN-366025	N84-22903*	c 34		NASA-CASE-NPO-15465-1
			US-PATENT-APPL-SN-196877				US-PATENT-CLASS-260-465.5R				US-PATENT-APPL-SN-284289
			US-PATENT-CLASS-210-748				US-PATENT-CLASS-260-465.6				US-PATENT-CLASS-126-417
			US-PATENT-CLASS-422-121				US-PATENT-CLASS-528-362				US-PATENT-CLASS-165-DIG.6
			US-PATENT-CLASS-422-169				US-PATENT-CLASS-528-401				US-PATENT-CLASS-165-135
			US-PATENT-CLASS-422-178				US-PATENT-CLASS-528-422				US-PATENT-CLASS-62-DIG.1
			US-PATENT-CLASS-422-186				US-PATENT-CLASS-528-423				US-PATENT-CLASS-62-264
			US-PATENT-CLASS-55-DIG.25				US-PATENT-CLASS-544-215				US-PATENT-CLASS-62-467R
			US-PATENT-CLASS-55-DIG.30				US-PATENT-CLASS-564-243				US-PATENT-4,423,605
			US-PATENT-CLASS-55-105				US-PATENT-4,434,106	N84-22928*	c 35		NASA-CASE-MFS-25687-1
			US-PATENT-CLASS-55-12	N84-22745*	c 27		NASA-CASE-ARC-11368-3				US-PATENT-APPL-SN-350474
			US-PATENT-CLASS-55-126				US-PATENT-APPL-SN-288267				US-PATENT-CLASS-324-262
			US-PATENT-CLASS-55-131				US-PATENT-APPL-SN-512795				US-PATENT-CLASS-73-620
			US-PATENT-CLASS-55-138				US-PATENT-CLASS-428-370				US-PATENT-CLASS-73-633
			US-PATENT-CLASS-55-139				US-PATENT-CLASS-428-408				US-PATENT-CLASS-74-58
			US-PATENT-CLASS-55-145				US-PATENT-CLASS-428-902				US-PATENT-4,434,659
			US-PATENT-CLASS-55-2				US-PATENT-CLASS-428-920	N84-22929*	c 35		NASA-CASE-MFS-25405-1
			US-PATENT-CLASS-55-270				US-PATENT-CLASS-525-417				US-PATENT-APPL-SN-274708
			US-PATENT-CLASS-55-283				US-PATENT-CLASS-526-262				US-PATENT-CLASS-356-347
			US-PATENT-CLASS-55-291				US-PATENT-CLASS-528-228				US-PATENT-4,428,675
			US-PATENT-CLASS-55-466				US-PATENT-CLASS-528-322	N84-22930*	c 35		NASA-CASE-LEW-13598-1
			US-PATENT-CLASS-55-6				US-PATENT-CLASS-548-415				US-PATENT-APPL-SN-425203
			US-PATENT-CLASS-55-96				US-PATENT-4,395,557				US-PATENT-CLASS-101-395
			US-PATENT-CLASS-60-275				US-PATENT-4,433,115				US-PATENT-CLASS-156-630
			US-PATENT-CLASS-60-303	N84-22746*	c 27		NASA-CASE-LAR-12723-2				US-PATENT-CLASS-156-654
			US-PATENT-CLASS-60-311				US-PATENT-APPL-SN-199768				US-PATENT-CLASS-156-905
			US-PATENT-4,376,637				US-PATENT-APPL-SN-447731				US-PATENT-CLASS-228-165
N84-22546*	c 04		NASA-CASE-GSC-12508-1				US-PATENT-CLASS-525-426				US-PATENT-4,437,923
			US-PATENT-APPL-SN-266253				US-PATENT-CLASS-528-183	N84-22931*	c 35		NASA-CASE-NPO-15398-1
			US-PATENT-CLASS-343-356				US-PATENT-CLASS-528-220				US-PATENT-APPL-SN-259212
			US-PATENT-CLASS-343-357				US-PATENT-CLASS-528-345				US-PATENT-CLASS-356-216
			US-PATENT-4,445,118				US-PATENT-CLASS-528-348				US-PATENT-CLASS-356-234
N84-22551*	c 05		NASA-CASE-LAR-12541-1				US-PATENT-4,395,540				US-PATENT-4,431,306
			US-PATENT-APPL-SN-315588				US-PATENT-4,431,792	N84-22932*	c 35		NASA-CASE-LAR-12967-1
			US-PATENT-CLASS-244-212	N84-22747*	c 27		NASA-CASE-LAR-12931-1				US-PATENT-APPL-SN-414107

				US-PATENT-CLASS-310-317				US-PATENT-CLASS-350-443				US-PATENT-APPL-SN-450166
				US-PATENT-CLASS-310-334				US-PATENT-4,444,464				US-PATENT-CLASS-318-729
				US-PATENT-CLASS-310-366				NASA-CASE-LEW-14035-1				US-PATENT-CLASS-318-809
				US-PATENT-4,446,396		N84-24577*	c 07	US-PATENT-APPL-SN-136652				US-PATENT-CLASS-323-300
N84-22933*	c 35			NASA-CASE-LAR-12995-1				US-PATENT-CLASS-60-757				US-PATENT-4,459,528
				US-PATENT-APPL-SN-444150				US-PATENT-4,414,816		N84-28015*	c 35	NASA-CASE-WLP-10055-1
				US-PATENT-CLASS-181-121		N84-25037* #	c 36	NASA-CASE-NPO-16030-1				US-PATENT-APPL-SN-352827
				US-PATENT-CLASS-367-189				US-PATENT-APPL-SN-582494				US-PATENT-CLASS-73-862.65
				US-PATENT-CLASS-73-589		N84-27713*	c 04	NASA-CASE-NPO-15264-1				US-PATENT-4,425,808
				US-PATENT-CLASS-73-594				US-PATENT-APPL-SN-241154		N84-28016*	c 35	NASA-CASE-NPO-15423-1
				US-PATENT-4,445,378				US-PATENT-CLASS-343-105R				US-PATENT-APPL-SN-361216
N84-22934*	c 35			NASA-CASE-ARC-11361-1				US-PATENT-CLASS-364-452				US-PATENT-CLASS-250-296
				US-PATENT-APPL-SN-373771				US-PATENT-4,396,918				US-PATENT-4,435,642
				US-PATENT-CLASS-340-870.13		N84-27733*	c 06	NASA-CASE-LAR-12630-1		N84-28017*	c 35	NASA-CASE-NPO-15706-1
				US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-383384				US-PATENT-APPL-SN-350475
				US-PATENT-CLASS-73-721				US-PATENT-CLASS-340-705				US-PATENT-CLASS-310-154
				US-PATENT-CLASS-73-756				US-PATENT-CLASS-340-971				US-PATENT-CLASS-310-171
N84-22943*	c 36			US-PATENT-4,442,716				US-PATENT-CLASS-340-975				US-PATENT-CLASS-310-688
				NASA-CASE-NPO-15516-1				US-PATENT-CLASS-340-978				US-PATENT-CLASS-335-222
				US-PATENT-APPL-SN-364126				US-PATENT-CLASS-340-980				US-PATENT-4,443,724
				US-PATENT-CLASS-372-20				US-PATENT-CLASS-73-178R		N84-28018*	c 35	NASA-CASE-MFS-25754-1
				US-PATENT-CLASS-372-28				US-PATENT-4,453,163				US-PATENT-APPL-SN-359626
				US-PATENT-CLASS-372-32		N84-27749*	c 09	NASA-CASE-MFS-25791-1				US-PATENT-CLASS-33-169F
				US-PATENT-4,434,490				US-PATENT-APPL-SN-409678				US-PATENT-CLASS-62-128
N84-22944*	c 36			NASA-CASE-LEW-13526-1				US-PATENT-CLASS-417-159				US-PATENT-CLASS-73-150R
				US-PATENT-APPL-SN-358398				US-PATENT-CLASS-73-117.1				US-PATENT-CLASS-73-170R
				US-PATENT-CLASS-118-50.1				US-PATENT-4,454,753				US-PATENT-CLASS-73-32R
				US-PATENT-CLASS-118-624		N84-27784*	c 16	NASA-CASE-MFS-25853-1				US-PATENT-CLASS-73-864.41
				US-PATENT-CLASS-118-641				US-PATENT-APPL-SN-418138				US-PATENT-4,398,412
				US-PATENT-CLASS-427-399				US-PATENT-CLASS-244-158R		N84-28019*	c 35	NASA-CASE-LAR-12743-1
				US-PATENT-CLASS-427-53.1				US-PATENT-CLASS-244-172				US-PATENT-APPL-SN-372279
				US-PATENT-4,434,189				US-PATENT-CLASS-244-63				US-PATENT-CLASS-374-1
N84-22957*	c 37			NASA-CASE-LEW-13269-2				US-PATENT-4,452,412				US-PATENT-CLASS-73-18
				US-PATENT-APPL-SN-242795		N84-27787*	c 18	NASA-CASE-MFS-25878-1				US-PATENT-4,426,874
				US-PATENT-APPL-SN-431448				US-PATENT-APPL-SN-431886		N84-28065*	c 36	NASA-CASE-GSC-12592-1
				US-PATENT-CLASS-415-174				US-PATENT-CLASS-244-172				US-PATENT-APPL-SN-199766
				US-PATENT-CLASS-427-34				US-PATENT-CLASS-244-2				US-PATENT-CLASS-372-103
				US-PATENT-CLASS-427-423				US-PATENT-CLASS-244-63				US-PATENT-CLASS-372-4
				US-PATENT-CLASS-427-53.1				US-PATENT-4,451,017				US-PATENT-CLASS-372-71
				US-PATENT-CLASS-428-155		N84-27829*	c 24	NASA-CASE-LEW-13758-1				US-PATENT-CLASS-372-93
				US-PATENT-4,377,371				US-PATENT-APPL-SN-418139				US-PATENT-CLASS-372-95
				US-PATENT-4,430,360				US-PATENT-CLASS-73-833				US-PATENT-4,446,556
N84-22958*	c 37			NASA-CASE-LEW-12590-1				US-PATENT-CLASS-73-856		N84-28081*	c 37	NASA-CASE-NPO-14597-2
				US-PATENT-APPL-SN-229693				US-PATENT-4,452,088				US-PATENT-APPL-SN-037194
				US-PATENT-CLASS-60-730				US-PATENT-CLASS-LEW-13639-2				US-PATENT-APPL-SN-401288
				US-PATENT-CLASS-60-736		N84-27855*	c 26	US-PATENT-APPL-SN-456460				US-PATENT-CLASS-417-328
				US-PATENT-4,429,537				US-PATENT-CLASS-427-34				US-PATENT-CLASS-417-392
N84-23012* #	c 43			NASA-CASE-NPO-15656-1				US-PATENT-CLASS-427-405				US-PATENT-CLASS-417-462
				US-PATENT-APPL-SN-569370				US-PATENT-CLASS-427-419.2		N84-28082*	c 37	US-PATENT-4,449,894
				NASA-CASE-NPO-15496-1				US-PATENT-CLASS-428-632				NASA-CASE-GSC-12550-1
N84-23018*	c 44			US-PATENT-APPL-SN-379602				US-PATENT-4,451,496				US-PATENT-APPL-SN-238888
				US-PATENT-CLASS-290-55		N84-27884*	c 27	NASA-CASE-ARC-11405-1				US-PATENT-CLASS-73-468
				US-PATENT-CLASS-415-DIG.8				US-PATENT-APPL-SN-415880				US-PATENT-CLASS-74-5.5
				US-PATENT-CLASS-415-2R				US-PATENT-CLASS-528-271				US-PATENT-CLASS-74-573R
				US-PATENT-CLASS-60-641.12				US-PATENT-CLASS-528-310				US-PATENT-4,458,554
				US-PATENT-CLASS-60-698				US-PATENT-CLASS-528-327		N84-28083*	c 37	NASA-CASE-GSC-12762-1
				US-PATENT-CLASS-60-716				US-PATENT-CLASS-528-331				US-PATENT-APPL-SN-364094
				US-PATENT-4,433,544				US-PATENT-CLASS-528-362				US-PATENT-CLASS-269-224
N84-23019*	c 44			NASA-CASE-LAR-12958-1				US-PATENT-4,450,268				US-PATENT-CLASS-269-242
				US-PATENT-APPL-SN-433196		N84-27885*	c 27	NASA-CASE-LEW-13770-1				US-PATENT-CLASS-269-244
				US-PATENT-CLASS-104-DIG.4				US-PATENT-APPL-SN-404809				US-PATENT-CLASS-269-252
				US-PATENT-CLASS-204-DIG.3				US-PATENT-CLASS-526-262				US-PATENT-CLASS-269-285
				US-PATENT-CLASS-204-129				US-PATENT-CLASS-528-322				US-PATENT-4,448,408
				US-PATENT-CLASS-204-278				US-PATENT-CLASS-528-342		N84-28084*	c 37	NASA-CASE-LAR-12644-1
				US-PATENT-CLASS-204-280				US-PATENT-4,455,418				US-PATENT-APPL-SN-387728
				US-PATENT-CLASS-423-303		N84-27886*	c 27	NASA-CASE-LAR-12862-1				US-PATENT-CLASS-74-753
				US-PATENT-CLASS-429-111				US-PATENT-APPL-SN-435511				US-PATENT-CLASS-74-758
				US-PATENT-4,439,301				US-PATENT-CLASS-220-306				US-PATENT-CLASS-74-812
N84-23095*	c 52			NASA-CASE-LEW-13107-2				US-PATENT-CLASS-244-117A				US-PATENT-4,446,757
				US-PATENT-APPL-SN-444124				US-PATENT-CLASS-244-158A		N84-28085*	c 37	NASA-CASE-LAR-12786-1
				US-PATENT-CLASS-156-643				US-PATENT-4,456,208				US-PATENT-APPL-SN-309292
				US-PATENT-CLASS-156-644				NASA-CASE-NPO-15024-1				US-PATENT-CLASS-30-180
				US-PATENT-CLASS-156-668				US-PATENT-APPL-SN-284287				US-PATENT-CLASS-30-188
				US-PATENT-CLASS-204-192E		N84-27951*	c 32	US-PATENT-CLASS-343-17.7				US-PATENT-CLASS-30-228
				US-PATENT-4,432,853				US-PATENT-CLASS-434-2				US-PATENT-CLASS-30-249
N84-23113*	c 54			NASA-CASE-MSC-20261-2				US-PATENT-4,450,447				US-PATENT-CLASS-30-272R
				US-PATENT-APPL-SN-393581		N84-27952*	c 32	NASA-CASE-MSC-16170-2				US-PATENT-4,458,418
				US-PATENT-CLASS-2-161R				US-PATENT-APPL-SN-147695		N84-28203*	c 44	NASA-CASE-NPO-15388-1
				US-PATENT-CLASS-2-167				US-PATENT-APPL-SN-737975				US-PATENT-APPL-SN-284286
				US-PATENT-4,433,439				US-PATENT-CLASS-329-124				US-PATENT-CLASS-126-419
N84-23233*	c 71			NASA-CASE-NPO-15689-1				US-PATENT-CLASS-375-120				US-PATENT-CLASS-126-438
				US-PATENT-APPL-SN-358089				US-PATENT-CLASS-375-77				US-PATENT-CLASS-126-451
				US-PATENT-CLASS-310-300				US-PATENT-CLASS-375-81				US-PATENT-4,433,672
				US-PATENT-CLASS-318-116				US-PATENT-CLASS-455-202		N84-28204*	c 44	NASA-CASE-NPO-15662-1
				US-PATENT-CLASS-60-721				US-PATENT-CLASS-455-208				US-PATENT-APPL-SN-392103
				US-PATENT-CLASS-73-505				US-PATENT-CLASS-455-260				US-PATENT-CLASS-126-418
				US-PATENT-4,420,977				US-PATENT-CLASS-455-265				US-PATENT-CLASS-126-438
N84-23247*	c 74			NASA-CASE-NPO-15345-1				US-PATENT-4,455,680				US-PATENT-CLASS-126-440
				US-PATENT-APPL-SN-276749		N84-27974*	c 33	NASA-CASE-LEW-13736-1				US-PATENT-4,449,514
				US-PATENT-CLASS-358-125				US-PATENT-APPL-SN-434084		N84-28205*	c 44	NASA-CASE-LEW-13653-1
				US-PATENT-CLASS-358-213				US-PATENT-CLASS-315-3.6				US-PATENT-APPL-SN-352821
				US-PATENT-4,430,673				US-PATENT-CLASS-315-39.3				US-PATENT-CLASS-204-290
N84-23248*	c 74			NASA-CASE-GSC-12756-1				US-PATENT-CLASS-331-82				US-PATENT-CLASS-29-623.5
				US-PATENT-APPL-SN-378535				US-PATENT-CLASS-333-162				US-PATENT-CLASS-29-825
				US-PATENT-CLASS-350-172				US-PATENT-4,459,562				US-PATENT-CLASS-427-113
				US-PATENT-CLASS-350-173		N84-27975*	c 33	NASA-CASE-MFS-25854-1				US-PATENT-CLASS-427-115

			US-PATENT-CLASS-427-125	US-PATENT-APPL-SN-452466	US-PATENT-CLASS-250-251
			US-PATENT-CLASS-427-226	US-PATENT-CLASS-297-DIG.5	US-PATENT-CLASS-250-252.1
			US-PATENT-CLASS-427-372.2	US-PATENT-CLASS-428-246	US-PATENT-CLASS-250-372
			US-PATENT-CLASS-427-379	US-PATENT-CLASS-428-280	US-PATENT-4,469,942
			US-PATENT-CLASS-427-380	US-PATENT-CLASS-428-287	NAS 1.71:MFS-25717-1
			US-PATENT-CLASS-427-443	US-PATENT-CLASS-428-304.4	NASA-CASE-MFS-25717-1
			US-PATENT-CLASS-429-44	US-PATENT-CLASS-428-319.1	US-PATENT-APPL-SN-441897
			US-PATENT-4,454,649	US-PATENT-CLASS-428-423.5	US-PATENT-CLASS-175-45
N84-28292*	c 47		NASA-CASE-LAR-12971-1	US-PATENT-CLASS-428-71	US-PATENT-CLASS-299-1
			US-PATENT-APPL-SN-444149	US-PATENT-CLASS-428-76	US-PATENT-4,466,667
			US-PATENT-CLASS-250-356.1	US-PATENT-CLASS-428-921	NAS 1.71:NPO-15341-1
			US-PATENT-CLASS-73-189	US-PATENT-CLASS-5-459	NASA-CASE-NPO-15341-1
			US-PATENT-CLASS-73-861.71	US-PATENT-4,463,465	US-PATENT-APPL-SN-315583
			US-PATENT-4,449,400	NAS 1.71:LEW-13233-1	US-PATENT-CLASS-180-168
N84-28361*	c 51		NASA-CASE-ARC-11359-1	NASA-CASE-LAR-13233-1	US-PATENT-CLASS-318-587
			US-PATENT-APPL-SN-392092	US-PATENT-APPL-SN-649329	US-PATENT-CLASS-340-905
			US-PATENT-CLASS-264-41	NAS 1.71:LEW-13524-1	US-PATENT-CLASS-340-988
			US-PATENT-CLASS-521-141	NASA-CASE-LEW-13524-1	US-PATENT-4,472,716
			US-PATENT-CLASS-521-142	US-PATENT-APPL-SN-238257	NAS 1.71:MFS-25862-2
			US-PATENT-CLASS-521-149	US-PATENT-CLASS-415-115	NASA-CASE-MFS-25862-2
			US-PATENT-4,456,708	US-PATENT-CLASS-60-39.29	US-PATENT-APPL-SN-460509
N84-28388*	c 52		NASA-CASE-LAR-12650-1	US-PATENT-CLASS-60-39.83	US-PATENT-CLASS-73-12
			US-PATENT-APPL-SN-264381	US-PATENT-4,416,111	US-PATENT-CLASS-73-588
			US-PATENT-CLASS-128-325	NAS 1.71:LEW-12884-1	US-PATENT-4,470,293
			US-PATENT-CLASS-128-346	NASA-CASE-LAR-12884-1	NAS 1.71:LEW-12995-1
			US-PATENT-CLASS-24-560	US-PATENT-APPL-SN-510136	NASA-CASE-LEW-12995-1
			US-PATENT-4,416,266	US-PATENT-CLASS-428-182	US-PATENT-APPL-SN-157150
N84-28389*	c 52		NASA-CASE-LAR-12650-2	US-PATENT-CLASS-428-184	US-PATENT-CLASS-60-303
			US-PATENT-APPL-SN-264381	US-PATENT-CLASS-428-595	US-PATENT-CLASS-60-606
			US-PATENT-APPL-SN-465363	US-PATENT-CLASS-52-814	US-PATENT-4,449,370
			US-PATENT-CLASS-156-191	US-PATENT-4,472,473	NASA-CASE-NPO-15351-2
			US-PATENT-CLASS-156-285	NAS 1.71:LEW-13639-1	US-PATENT-APPL-SN-224231
			US-PATENT-CLASS-156-289	NASA-CASE-LEW-13639-1	US-PATENT-APPL-SN-412039
			US-PATENT-CLASS-156-382	US-PATENT-APPL-SN-403378	US-PATENT-CLASS-73-178-R
			US-PATENT-CLASS-29-423	US-PATENT-CLASS-416-241R	US-PATENT-4,346,595
			US-PATENT-CLASS-29-451	US-PATENT-CLASS-428-564	US-PATENT-4,474,062
			US-PATENT-4,447,943	US-PATENT-CLASS-428-639	NASA-CASE-LAR-12950-1
N84-28484*	c 54		NASA-CASE-MSC-20261-1	US-PATENT-CLASS-428-678	US-PATENT-APPL-SN-481106
			US-PATENT-APPL-SN-393586	US-PATENT-4,446,199	US-PATENT-CLASS-73-147
			US-PATENT-CLASS-2-161R	NAS 1.71:NPO-15753-1	US-PATENT-4,475,385
			US-PATENT-CLASS-2-164	NASA-CASE-NPO-15753-1	NAS 1.71:LEW-13230-1
			US-PATENT-CLASS-2-167	US-PATENT-APPL-SN-342871	NASA-CASE-LAR-13230-1
			US-PATENT-4,454,611	US-PATENT-CLASS-219-203	US-PATENT-APPL-SN-548584
N84-28491*	c 60		NASA-CASE-GSC-12447-2	US-PATENT-CLASS-219-219	US-PATENT-CLASS-523-454
			US-PATENT-APPL-SN-128230	US-PATENT-CLASS-219-522	US-PATENT-CLASS-523-458
			US-PATENT-APPL-SN-501060	US-PATENT-CLASS-219-541	US-PATENT-CLASS-525-484
			US-PATENT-CLASS-364-900	US-PATENT-CLASS-219-543	US-PATENT-CLASS-528-407
			US-PATENT-4,435,781	US-PATENT-CLASS-338-309	US-PATENT-CLASS-528-92
N84-28492*	c 60		NASA-CASE-MSC-20258-1	US-PATENT-CLASS-428-432	US-PATENT-4,473,674
			US-PATENT-APPL-SN-235472	US-PATENT-4,459,470	NAS 1.71:NPO-15519-1
			US-PATENT-CLASS-340-825.21	NAS 1.71:MFS-25302-2	NASA-CASE-NPO-15519-1
			US-PATENT-CLASS-340-825.5	NASA-CASE-MFS-25302-2	US-PATENT-APPL-SN-314928
			US-PATENT-CLASS-364-900	US-PATENT-APPL-SN-243683	US-PATENT-CLASS-343-5-CM
			US-PATENT-4,446,459	US-PATENT-APPL-SN-481086	US-PATENT-CLASS-343-5-DP
N84-28565*	c 70		NASA-CASE-LEW-12919-2	US-PATENT-CLASS-307-87	US-PATENT-CLASS-343-5-F
			US-PATENT-APPL-SN-264378	US-PATENT-CLASS-322-25	US-PATENT-4,471,357
			US-PATENT-APPL-SN-364072	US-PATENT-CLASS-322-29	NAS 1.71:NPO-15558-1
			US-PATENT-CLASS-313-106	US-PATENT-CLASS-322-47	NASA-CASE-NPO-15558-1
			US-PATENT-CLASS-313-107	US-PATENT-CLASS-322-95	US-PATENT-APPL-SN-373770
			US-PATENT-CLASS-313-351	US-PATENT-4,388,585	US-PATENT-CLASS-250-343
			US-PATENT-CLASS-315-538	US-PATENT-4,473,792	US-PATENT-CLASS-250-351
			US-PATENT-4,349,424	NAS 1.71:MFS-25852-1	US-PATENT-CLASS-356-434
			US-PATENT-4,417,175	NASA-CASE-MFS-25852-1	US-PATENT-CLASS-356-51
N84-28568*	c 71		NASA-CASE-MFS-25828-1	US-PATENT-APPL-SN-450319	US-PATENT-4,474,471
			US-PATENT-APPL-SN-493866	US-PATENT-CLASS-318-729	NAS 1.71:NPO-15808-1
			US-PATENT-CLASS-137-838	US-PATENT-CLASS-318-802	NASA-CASE-NPO-15808-1
			US-PATENT-CLASS-366-106	US-PATENT-4,469,998	US-PATENT-APPL-SN-383068
			US-PATENT-CLASS-425-6	NAS 1.71:LEW-13495-1	US-PATENT-CLASS-126-415
			US-PATENT-CLASS-65-142	NASA-CASE-LEW-13495-1	US-PATENT-CLASS-4-498
			US-PATENT-CLASS-65-160	US-PATENT-APPL-SN-368188	US-PATENT-4,470,403
			US-PATENT-CLASS-65-21.3	US-PATENT-CLASS-323-901	NASA-CASE-GSC-12652-1
			US-PATENT-CLASS-65-21.4	US-PATENT-CLASS-363-22	US-PATENT-APPL-SN-377891
			US-PATENT-4,447,251	US-PATENT-CLASS-363-49	US-PATENT-CLASS-128-24-A
N84-28575*	c 72		NASA-CASE-MFS-25641-1	US-PATENT-4,464,710	US-PATENT-CLASS-128-328
			US-PATENT-APPL-SN-342857	NAS 1.71:GSC-12682-1	US-PATENT-4,474,180
			US-PATENT-CLASS-250-305	NASA-CASE-GSC-12682-1	NASA-CASE-NPO-15786-1
			US-PATENT-CLASS-324-457	US-PATENT-APPL-SN-350477	US-PATENT-APPL-SN-366103
			US-PATENT-CLASS-324-71.3	US-PATENT-CLASS-250-367	US-PATENT-CLASS-204-1T
			US-PATENT-CLASS-324-72.5	US-PATENT-CLASS-250-385	US-PATENT-CLASS-204-37.6
			US-PATENT-4,455,532	US-PATENT-CLASS-250-483.1	US-PATENT-CLASS-204-56R
N84-28590*	c 74		NASA-CASE-NPO-15805-1	US-PATENT-CLASS-357-29	US-PATENT-CLASS-324-158D
			US-PATENT-APPL-SN-296137	US-PATENT-CLASS-357-30	US-PATENT-CLASS-324-158T
			US-PATENT-CLASS-250-332	US-PATENT-CLASS-357-32	US-PATENT-4,462,871
			US-PATENT-CLASS-250-338	US-PATENT-4,472,728	NASA-CASE-NPO-15629-1
			US-PATENT-4,443,701	NAS 1.71:NPO-13556-1	US-PATENT-APPL-SN-371351
N84-28732*	c 02		NASA-CASE-LAR-12396-1	NASA-CASE-NPO-13556-1	US-PATENT-CLASS-156-DIG.84
			US-PATENT-APPL-SN-017889	US-PATENT-APPL-SN-561369	US-PATENT-CLASS-156-DIG.88
			US-PATENT-CLASS-244-35R	US-PATENT-CLASS-250-339	US-PATENT-CLASS-156-DIG.88
			US-PATENT-CLASS-416-223R	US-PATENT-CLASS-356-188	US-PATENT-CLASS-156-608
			US-PATENT-CLASS-416-242	US-PATENT-CLASS-356-189	US-PATENT-CLASS-156-617-SP
			US-PATENT-4,459,083	US-PATENT-CLASS-356-73	US-PATENT-CLASS-156-617-V
N84-32447* #	c 25		NAS 1.71:LEW-13257-1	US-PATENT-CLASS-356-74	US-PATENT-CLASS-422-246
			NASA-CASE-LAR-13257-1	US-PATENT-4,043,668	US-PATENT-CLASS-422-249
			US-PATENT-APPL-SN-633178	NAS 1.71:NPO-15644-1	US-PATENT-4,469,552
N84-33394*	c 03		NAS 1.71:ARC-11423-1	NASA-CASE-NPO-15644-1	NAS 1.71:LEW-12787-2
			NASA-CASE-ARC-11423-1	US-PATENT-APPL-SN-358088	NASA-CASE-LAR-12787-2

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				US-PATENT-CLASS-222-340				US-PATENT-CLASS-343-5W				US-PATENT-CLASS-358-109
				US-PATENT-CLASS-222-43				US-PATENT-4,463,357				US-PATENT-CLASS-358-133
				US-PATENT-CLASS-222-48	N85-21992*	c 60		NAS 1.71:NPO-15295-1				US-PATENT-4,513,317
N85-21596*	c 35			US-PATENT-4,488,663				NASA-CASE-NPO-15295-1	N85-29118*	c 32		NASA-CASE-NPO-15743-1
				NAS 1.71:NPO-15759-1				US-PATENT-APPL-SN-291645				US-PATENT-APPL-SN-448881
				NASA-CASE-NPO-15759-1				US-PATENT-CLASS-364-200				US-PATENT-CLASS-343-876
				US-PATENT-APPL-SN-367136				US-PATENT-4,481,570				US-PATENT-CLASS-455-73
				US-PATENT-CLASS-324-427	N85-22104*	c 71		NAS 1.71:NPO-15466-1				US-PATENT-4,503,436
				US-PATENT-CLASS-429-58				NASA-CASE-NPO-15466-1	N85-29142*	c 33		NASA-CASE-NPO-15553-1
				US-PATENT-4,499,424				US-PATENT-APPL-SN-361217				US-PATENT-APPL-SN-437912
N85-21597*	c 35			NAS 1.71:NPO-16027-1				US-PATENT-CLASS-23-313R				US-PATENT-CLASS-156-DIG.62
				NASA-CASE-NPO-16027-1				US-PATENT-CLASS-55-15				US-PATENT-CLASS-364-400
				US-PATENT-APPL-SN-500044				US-PATENT-CLASS-55-277				US-PATENT-CLASS-364-453
				US-PATENT-CLASS-73-40.5A				US-PATENT-4,475,921				US-PATENT-CLASS-74-5.6D
				US-PATENT-CLASS-73-753	N85-22105*	c 71		NAS 1.71:NPO-16022-1				US-PATENT-4,521,854
				US-PATENT-4,498,333				NASA-CASE-NPO-16022-1	N85-29143*	c 33		NASA-CASE-NPO-15890-1-CU
N85-21598*	c 35			NAS 1.71:WLP-10055-2				US-PATENT-APPL-SN-526750				US-PATENT-APPL-SN-556513
				NASA-CASE-WLP-10055-2				US-PATENT-CLASS-73-505				US-PATENT-CLASS-331-3
				US-PATENT-APPL-SN-352827				US-PATENT-4,463,606				US-PATENT-CLASS-331-31
				US-PATENT-APPL-SN-526770	N85-22139*	c 74		NAS 1.71:NPO-15155-1				US-PATENT-CLASS-331-36C
				US-PATENT-CLASS-29-610SG				NASA-CASE-NPO-15155-1				US-PATENT-CLASS-331-94.1
				US-PATENT-4,425,808				US-PATENT-APPL-SN-242797				US-PATENT-CLASS-331-96
				US-PATENT-4,498,231				US-PATENT-CLASS-250-221				US-PATENT-CLASS-333-231
N85-21631*	c 36			NAS 1.71:NPO-15790-1				US-PATENT-CLASS-340-555				US-PATENT-4,517,530
				NASA-CASE-NPO-15790-1				US-PATENT-4,479,053	N85-29144*	c 33		NASA-CASE-LEW-13102-1
				US-PATENT-APPL-SN-423016	N85-22877*	c 33		NAS 1.71:MFS-25861-1				US-PATENT-APPL-SN-282298
				US-PATENT-CLASS-250-339				NASA-CASE-MFS-25861-1				US-PATENT-CLASS-429-206
				US-PATENT-CLASS-250-343				US-PATENT-APPL-SN-504345				US-PATENT-CLASS-429-249
				US-PATENT-4,489,239				US-PATENT-CLASS-318-729				US-PATENT-4,505,998
N85-21639*	c 36			NAS 1.71:GSC-12558-1				US-PATENT-CLASS-318-812	N85-29145*	c 33		NASA-CASE-GSC-12788-1
				NASA-CASE-GSC-12558-1				US-PATENT-4,489,264				US-PATENT-APPL-SN-434085
				US-PATENT-APPL-SN-383086	N85-23396*	c 74		NAS 1.71:NPO-15801-1				US-PATENT-CLASS-307-271
				US-PATENT-CLASS-356-43				NASA-CASE-NPO-15801-1				US-PATENT-CLASS-307-520
				US-PATENT-CLASS-356-45				US-PATENT-APPL-SN-478130				US-PATENT-CLASS-307-521
				US-PATENT-CLASS-374-137				US-PATENT-CLASS-350-168				US-PATENT-CLASS-307-529
				US-PATENT-CLASS-73-705				US-PATENT-CLASS-350-505				US-PATENT-CLASS-328-167
				US-PATENT-4,493,553				US-PATENT-CLASS-350-619				US-PATENT-CLASS-330-302
N85-21649*	c 37			NAS 1.71:MSC-20319-1				US-PATENT-CLASS-356-323				US-PATENT-CLASS-330-306
				NASA-CASE-MSC-20319-1				US-PATENT-CLASS-356-330				US-PATENT-4,521,702
				US-PATENT-APPL-SN-393582				US-PATENT-CLASS-356-331	N85-29146*	c 33		NASA-CASE-GSC-12817-1
				US-PATENT-CLASS-292-252				US-PATENT-4,497,540				US-PATENT-APPL-SN-506477
				US-PATENT-CLASS-403-317	N85-25436* #	c 24		NAS 1.15:76884				US-PATENT-CLASS-336-198
				US-PATENT-CLASS-81-177G				NASA-TM-76884				US-PATENT-CLASS-336-84C
				US-PATENT-4,483,639	N85-28973*	c 23		NASA-CASE-LAR-13262-1				US-PATENT-4,510,476
N85-21650*	c 37			NAS 1.71:NPO-15483-1				US-PATENT-APPL-SN-608741	N85-29147*	c 33		NASA-CASE-GSC-12818-1
				NASA-CASE-NPO-15483-1				US-PATENT-CLASS-525-532				US-PATENT-APPL-SN-511362
				US-PATENT-APPL-SN-387648				US-PATENT-CLASS-525-534				US-PATENT-CLASS-307-82
				US-PATENT-CLASS-125-13R				US-PATENT-CLASS-528-86				US-PATENT-CLASS-363-100
				US-PATENT-CLASS-125-15				US-PATENT-4,510,296				US-PATENT-CLASS-363-19
				US-PATENT-CLASS-51-73R	N85-28982*	c 25		NASA-CASE-LEW-13770-2				US-PATENT-CLASS-363-23
				US-PATENT-CLASS-82-90				US-PATENT-APPL-SN-404809				US-PATENT-CLASS-363-61
				US-PATENT-CLASS-83-664				US-PATENT-APPL-SN-516217				US-PATENT-CLASS-363-71
				US-PATENT-CLASS-83-676				US-PATENT-CLASS-526-262				US-PATENT-CLASS-378-104
				US-PATENT-4,475,527				US-PATENT-CLASS-528-322				US-PATENT-CLASS-378-112
N85-21651*	c 37			NAS 1.71:LAR-12868-1				US-PATENT-CLASS-528-342				US-PATENT-4,517,472
				NASA-CASE-LAR-12868-1				US-PATENT-4,455,418	N85-29179*	c 34		NASA-CASE-LEW-12950-2
				US-PATENT-APPL-SN-322321				US-PATENT-4,514,557				US-PATENT-APPL-SN-202228
				US-PATENT-CLASS-374-208	N85-29005*	c 26		NASA-CASE-NPO-15928-1				US-PATENT-APPL-SN-507626
				US-PATENT-CLASS-374-210				US-PATENT-APPL-SN-537616				US-PATENT-CLASS-165-104.14
				US-PATENT-4,491,427				US-PATENT-CLASS-204-192N				US-PATENT-CLASS-165-32
N85-21652*	c 37			NAS 1.71:NPO-15851-1				US-PATENT-CLASS-427-38				US-PATENT-CLASS-310-306
				NASA-CASE-NPO-15851-1				US-PATENT-CLASS-427-47				US-PATENT-4,506,183
				US-PATENT-APPL-SN-415879				US-PATENT-4,522,844	N85-29180*	c 34		NASA-CASE-MSC-20497-1
				US-PATENT-CLASS-134-37				NASA-CASE-NPO-16103-1				US-PATENT-APPL-SN-615505
				US-PATENT-CLASS-15-406	N85-29043*	c 27		US-PATENT-APPL-SN-617871				US-PATENT-CLASS-122-366
				US-PATENT-CLASS-422-129				US-PATENT-CLASS-525-26				US-PATENT-CLASS-165-1
				US-PATENT-CLASS-422-199				US-PATENT-CLASS-525-47				US-PATENT-CLASS-165-104.26
				US-PATENT-4,500,492				US-PATENT-CLASS-526-328				US-PATENT-4,515,207
N85-21723*	c 43			NAS 1.71:NPO-15651-1				US-PATENT-CLASS-526-329.2	N85-29182* #	c 34		NAS 1.71:NPO-16494-1-CU
				NASA-CASE-NPO-15651-1				US-PATENT-CLASS-528-288				NASA-CASE-NPO-16494-1-CU
				US-PATENT-APPL-SN-375620				US-PATENT-CLASS-528-289				US-PATENT-APPL-SN-739789
				US-PATENT-CLASS-343-352				US-PATENT-CLASS-528-303	N85-29212*	c 35		NASA-CASE-NPO-15722-1
				US-PATENT-CLASS-374-122				US-PATENT-CLASS-528-304				US-PATENT-APPL-SN-457992
				US-PATENT-4,499,470				US-PATENT-4,523,008				US-PATENT-CLASS-204-1T
N85-21768*	c 44			NAS 1.71:LEW-13827-1	N85-29044*	c 27		NASA-CASE-GSC-12883-1				US-PATENT-CLASS-204-430
				NASA-CASE-LEW-13827-1				US-PATENT-APPL-SN-604337				US-PATENT-CLASS-73-336.5
				US-PATENT-APPL-SN-486470				US-PATENT-CLASS-523-135				US-PATENT-4,514,178
				US-PATENT-CLASS-136-225				US-PATENT-CLASS-524-388	N85-29213*	c 35		NASA-CASE-MSC-18866-1
				US-PATENT-CLASS-136-246				US-PATENT-CLASS-524-567				US-PATENT-APPL-SN-350471
				US-PATENT-CLASS-357-30				US-PATENT-4,518,722				US-PATENT-CLASS-422-103
				US-PATENT-4,482,778				NASA-CASE-NPO-16257-1				US-PATENT-CLASS-422-86
N85-21769*	c 44			NAS 1.71:MFS-25637-1	N85-29082*	c 31		US-PATENT-APPL-SN-588164				US-PATENT-CLASS-422-88
				NASA-CASE-MFS-25637-1				US-PATENT-CLASS-62-3				US-PATENT-CLASS-436-2
				US-PATENT-APPL-SN-375684				US-PATENT-4,507,928				US-PATENT-CLASS-73-40.7
				US-PATENT-CLASS-290-1R	N85-29083*	c 31		NASA-CASE-LAR-13181-1				US-PATENT-CLASS-73-863.86
				US-PATENT-CLASS-290-4R				US-PATENT-APPL-SN-507623				US-PATENT-CLASS-73-864.52
				US-PATENT-CLASS-307-64				US-PATENT-CLASS-156-272.4				US-PATENT-4,515,751
				US-PATENT-CLASS-307-66				US-PATENT-CLASS-156-273.9	N85-29214*	c 35		NASA-CASE-MSC-25707-1
				US-PATENT-CLASS-318-46				US-PATENT-CLASS-156-380.2				US-PATENT-APPL-SN-359627
				US-PATENT-CLASS-318-729				US-PATENT-CLASS-219-10.43				US-PATENT-CLASS-126-263
				US-PATENT-4,489,243				US-PATENT-CLASS-219-10.49				US-PATENT-CLASS-165-48R
N85-21846*	c 46			NAS 1.71:NPO-15430-1				US-PATENT-CLASS-219-10.53				US-PATENT-CLASS-165-61
				NASA-CASE-NPO-15430-1				US-PATENT-CLASS-219-10.77				US-PATENT-CLASS-165-64
				US-PATENT-APPL-SN-322317				US-PATENT-4,521,659				US-PATENT-CLASS-244-163
				US-PATENT-CLASS-343-352	N85-29117*	c 32		NASA-CASE-NPO-15432-1				US-PATENT-4,513,810
				US-PATENT-CLASS-343-460				US-PATENT-APPL-SN-425204	N85-29264*	c 36		NASA-CASE-NPO-16000-1

		US-PATENT-APPL-SN-384547		US-PATENT-APPL-SN-516217		US-PATENT-CLASS-148-33.2
		US-PATENT-CLASS-250-339		US-PATENT-APPL-SN-561434		US-PATENT-CLASS-156-DIG.65
		US-PATENT-CLASS-364-556		US-PATENT-CLASS-526-204		US-PATENT-CLASS-156-DIG.88
		US-PATENT-4,509,130		US-PATENT-CLASS-526-217		US-PATENT-CLASS-156-612
N85-29282*	c 37	NASA-CASE-NPO-15037-2		US-PATENT-CLASS-526-262		US-PATENT-CLASS-29-576E
		US-PATENT-APPL-SN-161257		US-PATENT-CLASS-528-314		US-PATENT-CLASS-29-576J
		US-PATENT-APPL-SN-431420		US-PATENT-CLASS-528-322		US-PATENT-CLASS-29-576W
		US-PATENT-CLASS-415-1		US-PATENT-4,495,339		US-PATENT-CLASS-29-578
		US-PATENT-CLASS-415-68	N85-30187*	NASA-CASE-NPO-16021-1		US-PATENT-CLASS-357-4
		US-PATENT-4,514,137	c 33	US-PATENT-APPL-SN-402205		US-PATENT-CLASS-357-50
N85-29283*	c 37	NASA-CASE-MSC-18852-1		US-PATENT-CLASS-324-158R		US-PATENT-4,522,661
		US-PATENT-APPL-SN-392094		US-PATENT-CLASS-324-65R	N85-30923*	NASA-CASE-LAR-12893-1
		US-PATENT-CLASS-239-DIG.23		US-PATENT-4,516,071	c 76	US-PATENT-APPL-SN-364041
		US-PATENT-CLASS-239-288	N85-30281*	NASA-CASE-GSC-12851-1		US-PATENT-CLASS-204-1T
		US-PATENT-CLASS-239-322	c 35	US-PATENT-APPL-SN-459842		US-PATENT-CLASS-324-158D
		US-PATENT-CLASS-239-327		US-PATENT-CLASS-250-363S		US-PATENT-CLASS-324-71.5
		US-PATENT-CLASS-239-375		US-PATENT-CLASS-250-369		US-PATENT-4,511,838
		US-PATENT-CLASS-239-590		US-PATENT-4,521,688	N85-33187*	NASA-CASE-ARC-11243-2
		US-PATENT-CLASS-55-DIG.42	N85-30282*	NASA-CASE-LAR-12966-1	c 23	US-PATENT-APPL-SN-183707
		US-PATENT-4,519,545	c 35	US-PATENT-APPL-SN-414237		US-PATENT-CLASS-549-335
N85-29284*	c 37	NASA-CASE-MSC-20148-1		US-PATENT-CLASS-356-351		US-PATENT-4,528,386
		US-PATENT-APPL-SN-636465		US-PATENT-CLASS-356-358	N85-33433*	NASA-CASE-LEW-14039-1
		US-PATENT-CLASS-251-325		US-PATENT-CLASS-73-657	c 34	US-PATENT-APPL-SN-580419
		US-PATENT-CLASS-251-349		US-PATENT-4,512,661		US-PATENT-CLASS-415-115
		US-PATENT-CLASS-251-353	N85-30305*	NASA-CASE-NPO-15980-1		US-PATENT-CLASS-416-97A
		US-PATENT-CLASS-277-135	c 36	US-PATENT-APPL-SN-385220		US-PATENT-4,529,358
		US-PATENT-CLASS-277-80		US-PATENT-CLASS-357-17	N85-33489*	NASA-CASE-LEW-13914-1
		US-PATENT-4,523,741		US-PATENT-CLASS-357-40	c 37	US-PATENT-APPL-SN-537615
N85-29285*	c 37	NASA-CASE-LAR-13009-1		US-PATENT-CLASS-357-46		US-PATENT-CLASS-315-3.5
		US-PATENT-APPL-SN-495380		US-PATENT-CLASS-372-38		US-PATENT-CLASS-315-5.38
		US-PATENT-CLASS-403-28		US-PATENT-CLASS-372-46		US-PATENT-CLASS-445-35
		US-PATENT-CLASS-403-408		US-PATENT-CLASS-372-50		US-PATENT-4,527,092
		US-PATENT-CLASS-411-368		US-PATENT-4,513,423	N85-33490*	NASA-CASE-LEW-13506-1
		US-PATENT-CLASS-411-378	N85-30333*	NASA-CASE-LEW-13717-1	c 37	US-PATENT-APPL-SN-596960
		US-PATENT-CLASS-411-426		US-PATENT-APPL-SN-463456		US-PATENT-CLASS-384-101
		US-PATENT-CLASS-411-501		US-PATENT-CLASS-310-77		US-PATENT-CLASS-384-99
		US-PATENT-CLASS-411-531		US-PATENT-CLASS-310-93		US-PATENT-4,527,910
		US-PATENT-4,512,699		US-PATENT-CLASS-318-611	N85-33701*	NASA-CASE-MFS-25319-1
N85-29286*	c 37	NASA-CASE-LAR-13040-1		US-PATENT-CLASS-335-100		US-PATENT-APPL-SN-437917
		US-PATENT-APPL-SN-547176		US-PATENT-4,517,505		US-PATENT-CLASS-364-723
		US-PATENT-CLASS-219-201	N85-30334*	NASA-CASE-MSC-20080-1		US-PATENT-CLASS-364-853
		US-PATENT-CLASS-219-221	c 37	US-PATENT-APPL-SN-393584		US-PATENT-4,528,639
		US-PATENT-CLASS-219-285		US-PATENT-CLASS-403-15	N85-33826*	NASA-CASE-MSC-20036-1
		US-PATENT-CLASS-414-217		US-PATENT-CLASS-403-16		US-PATENT-APPL-SN-569372
		US-PATENT-CLASS-73-863.11		US-PATENT-CLASS-403-322		US-PATENT-CLASS-204-192C
		US-PATENT-CLASS-73-864.81		US-PATENT-CLASS-89-1.57		US-PATENT-CLASS-204-192P
		US-PATENT-4,516,435		US-PATENT-4,512,678		US-PATENT-CLASS-350-342
N85-29693*	c 71	NASA-CASE-NPO-16147-1-CU	N85-30335*	NASA-CASE-LAR-12738-2		US-PATENT-CLASS-428-432
		US-PATENT-APPL-SN-559988	c 37	US-PATENT-APPL-SN-539230		US-PATENT-CLASS-428-698
		US-PATENT-CLASS-73-505		US-PATENT-CLASS-244-158-A		US-PATENT-CLASS-428-913
		US-PATENT-4,520,656		US-PATENT-CLASS-411-103		US-PATENT-4,522,469
N85-29749*	c 74	NASA-CASE-NPO-15464-1		US-PATENT-CLASS-411-108	N85-34280*	NASA-CASE-ARC-11522-2
		US-PATENT-APPL-SN-342828		US-PATENT-CLASS-52-127.7	c 27	US-PATENT-APPL-SN-641143
		US-PATENT-CLASS-156-166		US-PATENT-CLASS-52-506		US-PATENT-CLASS-528-168
		US-PATENT-CLASS-350-320		US-PATENT-CLASS-52-745		US-PATENT-CLASS-528-229
		US-PATENT-CLASS-350-96.15		US-PATENT-4,520,601		US-PATENT-CLASS-528-352
		US-PATENT-4,523,810	N85-30336*	NASA-CASE-LAR-12864-6		US-PATENT-CLASS-528-353
N85-29750*	c 74	NASA-CASE-MSC-18417-1	c 37	US-PATENT-APPL-SN-387846		US-PATENT-4,536,565
		US-PATENT-APPL-SN-523559		US-PATENT-CLASS-403-102	N85-34281*	NASA-CASE-ARC-11424-1
		US-PATENT-CLASS-350-312		US-PATENT-CLASS-403-322	c 27	US-PATENT-APPL-SN-598777
		US-PATENT-CLASS-350-319		US-PATENT-CLASS-403-348		US-PATENT-CLASS-428-260
		US-PATENT-CLASS-350-321		US-PATENT-4,518,277		US-PATENT-CLASS-428-408
		US-PATENT-CLASS-52-171	N85-30474*	NASA-CASE-NPO-15419-2		US-PATENT-CLASS-428-413
		US-PATENT-4,521,077	c 44	US-PATENT-APPL-SN-259208		US-PATENT-CLASS-525-107
N85-29800*	c 76	NASA-CASE-NPO-15772-1		US-PATENT-APPL-SN-542557		US-PATENT-CLASS-525-113
		US-PATENT-APPL-SN-392944		US-PATENT-CLASS-126-DIG.1		US-PATENT-CLASS-525-119
		US-PATENT-CLASS-156-623Q		US-PATENT-CLASS-126-400		US-PATENT-CLASS-525-186
		US-PATENT-CLASS-23-295R		US-PATENT-CLASS-126-415		US-PATENT-CLASS-525-229
		US-PATENT-4,512,846		US-PATENT-CLASS-126-419		US-PATENT-CLASS-528-113
N85-29947*	c 05	NASA-CASE-ARC-11444-1		US-PATENT-CLASS-126-900		US-PATENT-CLASS-528-407
		US-PATENT-APPL-SN-489675		US-PATENT-4,512,332		US-PATENT-CLASS-528-94
		US-PATENT-CLASS-416-145	N85-30475*	NASA-CASE-NPO-16155-1		US-PATENT-4,537,834
		US-PATENT-CLASS-416-23	c 44	US-PATENT-APPL-SN-578390		N85-34282*
		US-PATENT-CLASS-416-500		US-PATENT-CLASS-136-255	c 27	NASA-CASE-LAR-13226-1
		US-PATENT-4,514,143		US-PATENT-CLASS-136-256		US-PATENT-APPL-SN-548583
N85-29991*	c 18	NASA-CASE-MFS-25837-1		US-PATENT-CLASS-136-261		US-PATENT-CLASS-523-454
		US-PATENT-APPL-SN-401282		US-PATENT-CLASS-357-30		US-PATENT-CLASS-523-458
		US-PATENT-CLASS-244-118.1		US-PATENT-4,524,237		US-PATENT-CLASS-528-106
		US-PATENT-CLASS-244-158R	N85-30618*	NASA-CASE-LAR-13028-1		US-PATENT-CLASS-528-229
		US-PATENT-CLASS-248-503	c 52	US-PATENT-APPL-SN-582492		US-PATENT-CLASS-528-407
		US-PATENT-CLASS-248-555		US-PATENT-CLASS-128-660		US-PATENT-CLASS-528-92
		US-PATENT-CLASS-403-143		US-PATENT-CLASS-128-736		US-PATENT-4,510,277
		US-PATENT-CLASS-403-56		US-PATENT-CLASS-374-117	N85-34327*	NASA-CASE-NPO-15704-1
		US-PATENT-CLASS-403-76		US-PATENT-CLASS-374-160	c 32	US-PATENT-APPL-SN-359382
		US-PATENT-CLASS-403-90		US-PATENT-4,513,750		US-PATENT-CLASS-343-17.2-PC
		US-PATENT-CLASS-410-79	N85-30765*	NASA-CASE-NPO-15559-1		US-PATENT-CLASS-343-5-CM
		US-PATENT-CLASS-410-90	c 71	US-PATENT-APPL-SN-379601		US-PATENT-CLASS-343-5-W
		US-PATENT-4,508,296		US-PATENT-CLASS-181-0.5		US-PATENT-4,509,048
N85-30027*	c 24	NASA-CASE-LEW-13828-1		US-PATENT-CLASS-209-422	N85-34333*	NASA-CASE-NPO-15696-1
		US-PATENT-APPL-SN-560035		US-PATENT-CLASS-209-638	c 33	US-PATENT-APPL-SN-387647
		US-PATENT-CLASS-219-76.14		US-PATENT-4,523,682		US-PATENT-CLASS-364-571
		US-PATENT-CLASS-427-178	N85-30922*	NASA-CASE-NPO-15813-1		US-PATENT-CLASS-364-578
		US-PATENT-CLASS-427-37	c 76	US-PATENT-APPL-SN-507624		US-PATENT-CLASS-372-32
		US-PATENT-CLASS-427-422		US-PATENT-CLASS-148-DIG.26		US-PATENT-4,509,132
		US-PATENT-4,518,625		US-PATENT-CLASS-148-174	N85-34373*	NAS 1.71:NPO-15493-2
N85-30039*	c 25	NASA-CASE-LEW-13770-6		US-PATENT-CLASS-148-175	c 35	NAS 1.71:NPO-15494-2

		US-PATENT-APPL-SN-563890				US-PATENT-APPL-SN-633179			US-PATENT-CLASS-357-59
		US-PATENT-CLASS-324-65-P				US-PATENT-CLASS-73-3			US-PATENT-4,531,143
		US-PATENT-CLASS-73-75				US-PATENT-CLASS-73-861.07	N86-19580*	c 35	NASA-CASE-GSC-12795-1
		US-PATENT-4,532,797				US-PATENT-4,538,446			US-PATENT-APPL-SN-462508
N85-34374*	c 35	NASA-CASE-ARC-11503-1	N86-19304*	c 04	NASA-CASE-KSC-11155-1				US-PATENT-CLASS-374-115
		US-PATENT-APPL-SN-582643			US-PATENT-APPL-SN-425201				US-PATENT-CLASS-374-120
		US-PATENT-CLASS-250-374			US-PATENT-CLASS-343-68-R				US-PATENT-CLASS-374-163
		US-PATENT-CLASS-250-379			US-PATENT-4,540,986				US-PATENT-4,556,327
		US-PATENT-4,538,066	N86-19310*	c 05	NASA-CASE-LAR-13155-1	N86-19581*	c 35	NASA-CASE-MSC-20250-1	
N85-34375*	c 35	NASA-CASE-LAR-13243-1			US-PATENT-APPL-SN-469371			US-PATENT-APPL-SN-491113	
		US-PATENT-APPL-SN-590923			US-PATENT-CLASS-244-158-A			US-PATENT-CLASS-73-862.01	
		US-PATENT-CLASS-73-831			US-PATENT-CLASS-244-158-R			US-PATENT-CLASS-73-862.54	
		US-PATENT-CLASS-73-856			US-PATENT-CLASS-244-172			US-PATENT-4,557,149	
		US-PATENT-4,535,636			US-PATENT-4,557,444	N86-19603*	c 37	NASA-CASE-MFS-25949-1	
N85-34401*	c 37	NASA-CASE-MFS-25907-1	N86-19376*	c 23	NASA-CASE-ARC-11428-1			US-PATENT-APPL-SN-538063	
		US-PATENT-APPL-SN-510137			US-PATENT-APPL-SN-499126			US-PATENT-CLASS-414-730	
		US-PATENT-CLASS-244-118.1			US-PATENT-CLASS-260-927-N			US-PATENT-CLASS-901-31	
		US-PATENT-CLASS-244-158R			US-PATENT-CLASS-428-410			US-PATENT-CLASS-901-50	
		US-PATENT-CLASS-248-550			US-PATENT-CLASS-528-310			US-PATENT-4,545,723	
		US-PATENT-CLASS-267-150			US-PATENT-CLASS-548-413	N86-19604*	c 37	NASA-CASE-NPO-15960-1	
		US-PATENT-CLASS-267-8R			US-PATENT-CLASS-564-113			US-PATENT-APPL-SN-527613	
		US-PATENT-CLASS-410-156			US-PATENT-4,550,177			US-PATENT-CLASS-337-140	
		US-PATENT-4,536,114	N86-19380*	c 24	NASA-CASE-ARC-11427-1			US-PATENT-CLASS-60-527	
N85-34403*	c 37	NASA-CASE-MSC-20127-2			US-PATENT-APPL-SN-493865			US-PATENT-CLASS-60-528	
		US-PATENT-APPL-SN-646044			US-PATENT-CLASS-523-433			US-PATENT-4,553,393	
		US-PATENT-CLASS-137-116.3			US-PATENT-CLASS-523-445	N86-19605*	c 37	NASA-CASE-NPO-16038-1	
		US-PATENT-CLASS-137-99			US-PATENT-CLASS-523-68468			US-PATENT-APPL-SN-469864	
		US-PATENT-4,509,548			US-PATENT-CLASS-525-423			US-PATENT-CLASS-16-294	
N85-34441*	c 44	NASA-CASE-LEW-14077-1			US-PATENT-CLASS-525-527			US-PATENT-CLASS-403-113	
		US-PATENT-APPL-SN-580573			US-PATENT-CLASS-528-102			US-PATENT-CLASS-403-120	
		US-PATENT-CLASS-136-253			US-PATENT-CLASS-528-103			US-PATENT-4,558,967	
		US-PATENT-4,528,417			US-PATENT-4,550,129	N86-19606*	c 37	NASA-CASE-LEW-13670-1	
N85-34629*	c 74	NASA-CASE-NPO-15865-1	N86-19413*	c 25	NASA-CASE-MSC-20622-1			US-PATENT-APPL-SN-603374	
		US-PATENT-APPL-SN-425202			US-PATENT-APPL-SN-571616			US-PATENT-CLASS-384-103	
		US-PATENT-CLASS-343-13-R			US-PATENT-CLASS-374-46			US-PATENT-CLASS-384-106	
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-374-8			US-PATENT-4,552,466	
		US-PATENT-4,533,242			US-PATENT-CLASS-422-78	N86-19711*	c 43	NASA-CASE-NPO-15839-1	
N85-34722*	c 85	NASA-CASE-NPO-15949-1			US-PATENT-CLASS-436-155			US-PATENT-APPL-SN-465365	
		US-PATENT-APPL-SN-457990			US-PATENT-CLASS-73-7			US-PATENT-CLASS-343-5-CD	
		US-PATENT-CLASS-414-288			US-PATENT-4,561,784			US-PATENT-CLASS-343-5-CQ	
		US-PATENT-CLASS-414-328	N86-19455*	c 27	NASA-CASE-ARC-11405-2			US-PATENT-CLASS-343-5-VQ	
		US-PATENT-CLASS-414-373			US-PATENT-APPL-SN-514117			US-PATENT-CLASS-367-88	
		US-PATENT-CLASS-414-786			US-PATENT-CLASS-260-245.75	N86-19721*	c 44	US-PATENT-4,551,724	
		US-PATENT-4,537,554			US-PATENT-CLASS-260-245.9			NASA-CASE-LEW-14028-1	
N85-35194*	c 07	NASA-CASE-LAR-13019-1			US-PATENT-CLASS-528-327			US-PATENT-APPL-SN-642310	
		US-PATENT-APPL-SN-576308			US-PATENT-4,522,755			US-PATENT-CLASS-429-109	
		US-PATENT-CLASS-244-199	N86-19456*	c 27	NASA-CASE-LAR-13135-1			US-PATENT-CLASS-429-15	
		US-PATENT-CLASS-244-55			US-PATENT-APPL-SN-649328			US-PATENT-CLASS-429-19	
		US-PATENT-4,533,101			US-PATENT-CLASS-525-432			US-PATENT-CLASS-429-51	
N85-35195*	c 07	NASA-CASE-LEW-13562-2			US-PATENT-CLASS-525-436			US-PATENT-4,543,302	
		US-PATENT-APPL-SN-500651			US-PATENT-CLASS-528-179	N86-19885* #	c 52	NAS 1.71-GSC-12944-1	
		US-PATENT-CLASS-239-402.5			US-PATENT-CLASS-528-182			NASA-CASE-GSC-12944-1	
		US-PATENT-CLASS-60-39.23			US-PATENT-CLASS-528-185			US-PATENT-APPL-SN-793006	
		US-PATENT-CLASS-60-748			US-PATENT-CLASS-528-352	N86-20124*	c 74	NASA-CASE-MFS-25942-1	
		US-PATENT-4,534,166			US-PATENT-CLASS-528-353			US-PATENT-APPL-SN-571613	
N85-35200*	c 08	NASA-CASE-LAR-13076-1			US-PATENT-4,552,931			US-PATENT-CLASS-378-43	
		US-PATENT-APPL-SN-532342	N86-19457*	c 27	NASA-CASE-LEW-13864-1			US-PATENT-CLASS-378-85	
		US-PATENT-CLASS-244-113			US-PATENT-APPL-SN-434087			US-PATENT-4,562,583	
		US-PATENT-CLASS-244-139			US-PATENT-CLASS-528-229	N86-20125*	c 74	NASA-CASE-ARC-11502-1	
		US-PATENT-CLASS-244-75-R			US-PATENT-CLASS-528-322			US-PATENT-APPL-SN-594134	
		US-PATENT-4,538,778			US-PATENT-CLASS-528-342			US-PATENT-CLASS-350-276-R	
N85-35227*	c 23	NASA-CASE-NPO-16203-1			US-PATENT-CLASS-528-345			US-PATENT-CLASS-350-319	
		US-PATENT-APPL-SN-493179			US-PATENT-4,560,742			US-PATENT-CLASS-350-448	
		US-PATENT-CLASS-435-160	N86-19458*	c 27	NASA-CASE-LEW-14072-1			US-PATENT-CLASS-350-537	
		US-PATENT-CLASS-435-842			US-PATENT-APPL-SN-649330			US-PATENT-CLASS-350-580	
		US-PATENT-4,539,293			US-PATENT-CLASS-204-192-C			US-PATENT-4,542,963	
N85-35233*	c 24	NASA-CASE-LEW-14057-1			US-PATENT-CLASS-204-192-D	N86-20126*	c 74	NASA-CASE-MSC-20418-1	
		US-PATENT-APPL-SN-375784			US-PATENT-CLASS-204-192-R			US-PATENT-APPL-SN-438446	
		US-PATENT-APPL-SN-523297			US-PATENT-CLASS-204/298			US-PATENT-CLASS-378-58	
		US-PATENT-APPL-SN-640712			US-PATENT-CLASS-427-248.1			US-PATENT-CLASS-378-59	
		US-PATENT-CLASS-428-633			US-PATENT-CLASS-427-38			US-PATENT-4,542,520	
		US-PATENT-CLASS-428-656			US-PATENT-CLASS-428-446	N86-20150*	c 76	NASA-CASE-GSC-12816-1	
		US-PATENT-CLASS-428-678			US-PATENT-CLASS-428-473.5			US-PATENT-APPL-SN-507625	
		US-PATENT-CLASS-428-679			US-PATENT-CLASS-428-702			US-PATENT-CLASS-136-255	
		US-PATENT-CLASS-428-680			US-PATENT-4,560,577			US-PATENT-CLASS-136-262	
		US-PATENT-CLASS-428-681	N86-19479*	c 31	NASA-CASE-LAR-13098-1			US-PATENT-CLASS-29-572	
		US-PATENT-CLASS-428-682			US-PATENT-APPL-SN-530339			US-PATENT-CLASS-357-15	
		US-PATENT-4,485,151			US-PATENT-CLASS-16-242			US-PATENT-CLASS-357-30	
		US-PATENT-4,535,033			US-PATENT-CLASS-16-390			US-PATENT-4,543,442	
N85-35253*	c 25	NASA-CASE-NPO-15924-1			US-PATENT-CLASS-403-171	N86-20389*	c 07	NASA-CASE-LEW-13142-2	
		US-PATENT-APPL-SN-526768			US-PATENT-CLASS-403-64			US-PATENT-APPL-SN-413101	
		US-PATENT-CLASS-201-17			US-PATENT-CLASS-52-632			US-PATENT-CLASS-60-39.02	
		US-PATENT-CLASS-44-1-SR			US-PATENT-CLASS-52-637			US-PATENT-CLASS-60-39.07	
		US-PATENT-4,511,362			US-PATENT-CLASS-52-646			US-PATENT-CLASS-60-736	
N85-35267*	c 26	NASA-CASE-LEW-13923-1			US-PATENT-CLASS-52-648			US-PATENT-4,550,561	
		US-PATENT-APPL-SN-571617			US-PATENT-4,557,097	N86-20469*	c 18	NASA-CASE-MFS-25429-1	
		US-PATENT-CLASS-427-191	N86-19515*	c 33	NASA-CASE-GSC-12555-1			US-PATENT-APPL-SN-596959	
		US-PATENT-CLASS-427-228			US-PATENT-APPL-SN-153240			US-PATENT-CLASS-124-56	
		US-PATENT-CLASS-427-294			US-PATENT-CLASS-331-116-FE			US-PATENT-CLASS-244-158-R	
		US-PATENT-CLASS-427-376.2			US-PATENT-CLASS-331-117-FE			US-PATENT-CLASS-403-328	
		US-PATENT-CLASS-427-380			US-PATENT-4,553,110			US-PATENT-4,554,905	
		US-PATENT-CLASS-427-397.7	N86-19516*	c 33	NASA-CASE-NPO-16112-1	N86-20560*	c 27	NASA-CASE-ARC-11429-1-CU	
		US-PATENT-CLASS-428-698			US-PATENT-APPL-SN-542232			US-PATENT-APPL-SN-553339	
		US-PATENT-CLASS-428-704			US-PATENT-CLASS-357-23.6			US-PATENT-CLASS-524-548	
		US-PATENT-4,535,035			US-PATENT-CLASS-357-30			US-PATENT-CLASS-525-186	
N86-12547*	c 34	NASA-CASE-LAR-13220-1			US-PATENT-CLASS-357-58			US-PATENT-CLASS-526-262	

		US-PATENT-CLASS-526-265				NASA-CASE-NPO-16233-1			US-PATENT-CLASS-208-11
		US-PATENT-4,526,925				US-PATENT-APPL-SN-737018			US-PATENT-CLASS-48-197-R
N86-20561*	c 27	NASA-CASE-LAR-13384-1	N86-20841*	c 39	NASA-CASE-MFS-25910-1				US-PATENT-CLASS-8-DIG.9
		US-PATENT-APPL-SN-663840			US-PATENT-APPL-SN-548582				US-PATENT-4,582,590
		US-PATENT-CLASS-156-307			US-PATENT-CLASS-73-150-A	N86-25752*	c 35	NASA-CASE-MFS-28030-1	
		US-PATENT-CLASS-156-309.9			US-PATENT-CLASS-73-827			US-PATENT-APPL-SN-719799	
		US-PATENT-CLASS-156-331.5			US-PATENT-4,548,083			US-PATENT-CLASS-73-861.58	
		US-PATENT-CLASS-256-308.2	N86-21154*	c 60	NASA-CASE-LAR-12968-1			US-PATENT-4,572,004	
		US-PATENT-CLASS-427-385.5			US-PATENT-APPL-SN-523560	N86-25753*	c 35	NASA-CASE-NPO-16271-1	
		US-PATENT-CLASS-427-388.1			US-PATENT-CLASS-364-728			US-PATENT-APPL-SN-556514	
		US-PATENT-CLASS-428-458			US-PATENT-4,545,025			US-PATENT-CLASS-356-311	
		US-PATENT-CLASS-428-473.5	N86-21276*	c 71	NASA-CASE-LAR-13153-1			US-PATENT-CLASS-356-318	
		US-PATENT-4,543,295			US-PATENT-APPL-SN-590921			US-PATENT-4,585,344	
N86-20647*	c 32	NASA-CASE-MFS-25750-1			US-PATENT-CLASS-72-324	N86-25789*	c 37	NASA-CASE-LAR-13117-1	
		US-PATENT-APPL-SN-530185			US-PATENT-CLASS-72-341			US-PATENT-APPL-SN-556512	
		US-PATENT-CLASS-250-225			US-PATENT-CLASS-73-1-DV			US-PATENT-CLASS-244-159	
		US-PATENT-CLASS-350-354			US-PATENT-4,558,585			US-PATENT-CLASS-244-173	
		US-PATENT-CLASS-358-168	N86-21348*	c 74	NASA-CASE-MFS-25752-1			US-PATENT-CLASS-343-881	
		US-PATENT-4,546,248			US-PATENT-APPL-SN-473499			US-PATENT-CLASS-343-882	
N86-20668*	c 33	NASA-CASE-GSC-12804-1			US-PATENT-CLASS-350-335			US-PATENT-CLASS-52-111	
		US-PATENT-APPL-SN-529803			US-PATENT-CLASS-356-345			US-PATENT-CLASS-52-645	
		US-PATENT-CLASS-331-1-A			US-PATENT-CLASS-356-4.5			US-PATENT-CLASS-52-648	
		US-PATENT-CLASS-331-2			US-PATENT-CLASS-358-105			US-PATENT-4,578,920	
		US-PATENT-4,550,292			US-PATENT-CLASS-358-125	N86-25790*	c 37	NASA-CASE-LEW-14170-1	
N86-20669*	c 33	NASA-CASE-GSC-12899-1			US-PATENT-CLASS-358-88			US-PATENT-APPL-SN-672224	
		US-PATENT-APPL-SN-613140			US-PATENT-CLASS-364-822			US-PATENT-CLASS-227-27	
		US-PATENT-CLASS-191-12.2-R			US-PATENT-CLASS-382-42			US-PATENT-CLASS-227-28	
		US-PATENT-CLASS-242-107			US-PATENT-4,556,986			US-PATENT-4,580-791	
		US-PATENT-CLASS-242-54-R	N86-21582*	c 23	NASA-CASE-ARC-11402-3	N86-25791*	c 37	NASA-CASE-LAR-13169-1	
		US-PATENT-4,542,858			US-PATENT-APPL-SN-741405			US-PATENT-APPL-SN-606431	
N86-20670*	c 33	NASA-CASE-MFS-25868-1			US-PATENT-CLASS-564-243			US-PATENT-CLASS-343-DIG.2	
		US-PATENT-APPL-SN-638584			US-PATENT-4,567,301			US-PATENT-CLASS-343-883	
		US-PATENT-CLASS-330-258			US-PATENT-4,567,303			US-PATENT-CLASS-52-110	
		US-PATENT-CLASS-330-261	N86-21590*	c 24	NASA-CASE-ARC-11538-15B			US-PATENT-4,587,526	
		US-PATENT-CLASS-330-311			US-PATENT-APPL-SN-719796	N86-25874*	c 44	NASA-CASE-LEW-13822-1	
		US-PATENT-4,551,687			US-PATENT-CLASS-526-262			US-PATENT-APPL-SN-625077	
N86-20671*	c 33	NASA-CASE-LEW-13773-2	N86-21675*	c 27	US-PATENT-4,568,733			US-PATENT-CLASS-42-101	
		US-PATENT-APPL-SN-638541			NASA-CASE-LAR-12931-2			US-PATENT-CLASS-429-27	
		US-PATENT-CLASS-244-134-D			US-PATENT-APPL-SN-527914			US-PATENT-CLASS-429-57	
		US-PATENT-CLASS-310-324			US-PATENT-CLASS-260-544-D			US-PATENT-4,584,249	
		US-PATENT-CLASS-39-25.35			US-PATENT-CLASS-556-436	N86-26190*	c 74	NASA-CASE-GSC-12849-1	
		US-PATENT-4,545,553			US-PATENT-CLASS-585-24			US-PATENT-APPL-SN-556481	
N86-20672*	c 33	NASA-CASE-LEW-13922-1	N86-21718*	c 31	US-PATENT-4,565,886			US-PATENT-CLASS-250-228	
		US-PATENT-APPL-SN-537614			NASA-CASE-MFS-25905-2			US-PATENT-CLASS-356-236	
		US-PATENT-CLASS-307-264			US-PATENT-APPL-SN-601130			US-PATENT-CLASS-356-244	
		US-PATENT-CLASS-307-270			US-PATENT-CLASS-65-1			US-PATENT-CLASS-356-446	
		US-PATENT-CLASS-307-566			US-PATENT-CLASS-65-11.1			US-PATENT-CLASS-56-73	
		US-PATENT-CLASS-307-570			US-PATENT-CLASS-65-12			US-PATENT-4,583,860	
		US-PATENT-CLASS-307-572			US-PATENT-CLASS-65-2	N86-26352*	c 16	NASA-CASE-MFS-26966-1	
		US-PATENT-4,547,686	N86-21742*	c 33	US-PATENT-4,565,557			US-PATENT-APPL-SN-643522	
N86-20680* #	c 33	NAS 1.71:LEW-14127-1			NASA-CASE-LEW-13981-2			US-PATENT-CLASS-244-161	
		NASA-CASE-LEW-14127-1			US-PATENT-APPL-SN-714051			US-PATENT-4,582,277	
		US-PATENT-APPL-SN-748536			US-PATENT-CLASS-315-3.5	N86-26368*	c 20	NASA-CASE-MFS-25946-1	
N86-20681* #	c 33	NAS 1.71:NPO-16420-1			US-PATENT-CLASS-315-3.6			US-PATENT-APPL-SN-561432	
		NASA-CASE-NPO-16420-1			US-PATENT-CLASS-330-43			US-PATENT-CLASS-244-158.R	
		US-PATENT-APPL-SN-727838			US-PATENT-4,564,787			US-PATENT-CLASS-244-169	
N86-20750*	c 35	NASA-CASE-MFS-25963-1	N86-21850*	c 37	NASA-CASE-MFS-25807-2			US-PATENT-CLASS-60-203.1	
		US-PATENT-APPL-SN-571614			US-PATENT-APPL-SN-685607			US-PATENT-CLASS-60-39.465	
		US-PATENT-CLASS-165-30			US-PATENT-CLASS-219-124.34			US-PATENT-4,585,191	
		US-PATENT-CLASS-165-61			US-PATENT-CLASS-318-577	N86-26595*	c 35	NASA-CASE-MSC-20653-1	
		US-PATENT-CLASS-165-65			US-PATENT-CLASS-358-101			US-PATENT-APPL-SN-659474	
		US-PATENT-CLASS-219-390			US-PATENT-CLASS-901-42			US-PATENT-CLASS-73-863.21	
		US-PATENT-CLASS-219-395			US-PATENT-CLASS-901-47			US-PATENT-CLASS-73-863.31	
		US-PATENT-CLASS-219-396			US-PATENT-4,567,348			US-PATENT-CLASS-73-863.72	
		US-PATENT-CLASS-432-18	N86-22112*	c 54	NASA-CASE-LAR-12259-2			US-PATENT-CLASS-73-864.34	
		US-PATENT-4,544,025			US-PATENT-APPL-SN-280152			US-PATENT-4,584,887	
N86-20751*	c 35	NASA-CASE-ARC-11422-1			US-PATENT-CLASS-128-80-E	N86-26598* #	c 35	NAS 1.71:MFS-26002-1-CU	
		US-PATENT-APPL-SN-523991			US-PATENT-4,566,447			NASA-CASE-MFS-26002-1-CU	
		US-PATENT-CLASS-211-126	N86-22459* #	c 89	NAS 1.71:MFS-28013-1			US-PATENT-APPL-SN-765991	
		US-PATENT-CLASS-211-74			NASA-CASE-MFS-28013-1	N86-27270*	c 04	NASA-CASE-NPO-16171-1CU	
		US-PATENT-4,544,068			US-PATENT-APPL-SN-765979			US-PATENT-APPL-SN-551536	
N86-20752*	c 35	NASA-CASE-NPO-16142-1-CU	N86-24224* #	c 60	NAS 1.71:NPO-16464-1CU			US-PATENT-CLASS-343-357	
		US-PATENT-APPL-SN-561433			NASA-CASE-NPO-16464-1CU			US-PATENT-CLASS-343-418	
		US-PATENT-CLASS-73-505			US-PATENT-APPL-SN-815099			US-PATENT-4,578,678	
		US-PATENT-4,549,435	N86-24729*	c 18	NASA-CASE-MSC-20676-1	N86-27280*	c 06	NASA-CASE-LAR-12518-1	
N86-20756* #	c 35	NAS 1.71:MSC-20783-1			US-PATENT-APPL-SN-587764			US-PATENT-APPL-SN-578388	
		NASA-CASE-MSC-20783-1			US-PATENT-CLASS-244-159			US-PATENT-CLASS-244-181	
		US-PATENT-APPL-SN-738931			US-PATENT-4,579,302			US-PATENT-CLASS-340-968	
N86-20788*	c 37	NASA-CASE-MFS-25842-2	N86-24841* #	c 27	NAS 1.71:LAR-13292-1			US-PATENT-CLASS-364-433	
		US-PATENT-APPL-SN-692875			NASA-CASE-LAR-13292-1			US-PATENT-CLASS-364-435	
		US-PATENT-CLASS-277-53			US-PATENT-APPL-SN-834978			US-PATENT-CLASS-73-178T	
		US-PATENT-CLASS-415-174	N86-25269* #	c 76	NAS 1.71:NPO-16584-1CU			US-PATENT-4,586,140	
		US-PATENT-4,545,586			NASA-CASE-NPO-16584-1CU	N86-27288*	c 08	NASA-CASE-ARC-11372-1	
N86-20789*	c 37	NASA-CASE-MFS-25906-1			US-PATENT-APPL-SN-802769			US-PATENT-APPL-SN-415878	
		US-PATENT-APPL-SN-537757	N86-25416*	c 24	NASA-CASE-ARC-11421-3			US-PATENT-CLASS-200-157	
		US-PATENT-CLASS-212-230			US-PATENT-APPL-SN-771538			US-PATENT-CLASS-244-234	
		US-PATENT-CLASS-414-4			US-PATENT-CLASS-428-473.5			US-PATENT-CLASS-250-211K	
		US-PATENT-CLASS-414-718			US-PATENT-CLASS-428-474.4			US-PATENT-CLASS-318-584	
		US-PATENT-CLASS-414-753			US-PATENT-CLASS-428-477.7			US-PATENT-CLASS-318-640	
		US-PATENT-CLASS-901-25			US-PATENT-CLASS-528-170			US-PATENT-4,584,510	
		US-PATENT-CLASS-901-31			US-PATENT-CLASS-528-220	N86-27431*	c 25	NASA-CASE-MSC-20206-1	
		US-PATENT-4,547,121			US-PATENT-CLASS-528-321			US-PATENT-APPL-SN-478129	
N86-20797* #	c 37	NAS 1.71:ARC-11349-1			US-PATENT-CLASS-528-322			US-PATENT-CLASS-141-198	
		NASA-CASE-ARC-11349-1			US-PATENT-4,579-782			US-PATENT-CLASS-200-61.05	
		US-PATENT-APPL-SN-746160	N86-25428*	c 25	NASA-CASE-NPO-16392-1			US-PATENT-CLASS-340-605	
N86-20801* #	c 37	NAS 1.71:NPO-16233-1			US-PATENT-APPL-SN-633363			US-PATENT-4,591,838	

N86-27450*	c 27	NASA-CASE-LAR-13316-1 US-PATENT-APPL-SN-613139 US-PATENT-CLASS-260-544P US-PATENT-CLASS-525-534 US-PATENT-CLASS-525-535 US-PATENT-CLASS-526-285 US-PATENT-CLASS-528-171 US-PATENT-CLASS-528-174 US-PATENT-CLASS-528-176 US-PATENT-4,587,312	N86-29039*	c 27	NASA-CASE-LAR-13353-1 US-PATENT-APPL-SN-643524 US-PATENT-CLASS-264-204 US-PATENT-CLASS-264-216 US-PATENT-CLASS-264-236 US-PATENT-CLASS-264-347 US-PATENT-CLASS-528-183 US-PATENT-CLASS-528-222 US-PATENT-CLASS-528-341 US-PATENT-4,595,548	US-PATENT-CLASS-219-121LE US-PATENT-CLASS-219-121LY US-PATENT-CLASS-264-5 US-PATENT-CLASS-425-6 US-PATENT-CLASS-65-142 US-PATENT-CLASS-65-21.2 US-PATENT-CLASS-73-505 US-PATENT-4,553,917		
N86-27451*	c 27	NASA-CASE-ARC-11427-2 US-PATENT-APPL-SN-765980 US-PATENT-CLASS-523-434 US-PATENT-CLASS-523-445 US-PATENT-CLASS-523-461 US-PATENT-CLASS-525-108 US-PATENT-CLASS-525-115 US-PATENT-CLASS-525-119 US-PATENT-CLASS-525-122 US-PATENT-4,588,778	N86-29055*	c 31	NASA-CASE-MFS-25825-1 US-PATENT-APPL-SN-657309 US-PATENT-CLASS-318-605 US-PATENT-CLASS-318-636 US-PATENT-CLASS-318-661 US-PATENT-CLASS-340-347CC US-PATENT-CLASS-340-347SY US-PATENT-4,594,540	N86-32568* #	c 27	NASA-CASE-ARC-11512-2 US-PATENT-APPL-SN-641153 US-PATENT-CLASS-528-336 US-PATENT-CLASS-528-337 US-PATENT-CLASS-528-340 US-PATENT-CLASS-528-347 US-PATENT-CLASS-564-15 US-PATENT-CLASS-568-14 US-PATENT-4,602,081
N86-27513*	c 32	NASA-CASE-KSC-11285-1 US-PATENT-APPL-SN-655601 US-PATENT-CLASS-179-18BC US-PATENT-CLASS-340-347DD US-PATENT-CLASS-365-768 US-PATENT-4,588,986	N86-29174*	c 35	NASA-CASE-LAR-13254-1CU US-PATENT-APPL-SN-668432 US-PATENT-CLASS-261-78A US-PATENT-CLASS-55-255 US-PATENT-CLASS-55-259 US-PATENT-CLASS-55-521 US-PATENT-CLASS-55-528 US-PATENT-4,595,399	N86-32569*	c 27	NASA-CASE-LEW-14072-2 US-PATENT-APPL-SN-761235 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192D US-PATENT-CLASS-204-298 US-PATENT-4,604,181
N86-27593*	c 34	NASA-CASE-MSC-20812-1 US-PATENT-APPL-SN-616002 US-PATENT-CLASS-122-366 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-104.26 US-PATENT-CLASS-165-41 US-PATENT-4,583,587	N86-29204*	c 36	NAS 1.71:LAR-13256-1 NASA-CASE-LAR-13256-1 US-PATENT-APPL-SN-745973 US-PATENT-CLASS-372-79 US-PATENT-4,594,720	N86-32587*	c 31	NASA-CASE-LEW-14130-1 US-PATENT-APPL-SN-659475 US-PATENT-CLASS-204-192C US-PATENT-CLASS-204-192D US-PATENT-CLASS-313-106 US-PATENT-CLASS-313-107 US-PATENT-CLASS-315-5.38 US-PATENT-CLASS-427-39 US-PATENT-4,607,193
N86-27629*	c 37	NASA-CASE-ARC-11525-1 US-PATENT-APPL-SN-681041 US-PATENT-CLASS-318-48 US-PATENT-CLASS-318-632 US-PATENT-CLASS-318-663 US-PATENT-CLASS-318-8 US-PATENT-4,591,772	N86-29507* #	c 54	NASA-CASE-ARC-11534-1 US-PATENT-APPL-SN-642602 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-168 US-PATENT-CLASS-285-184 US-PATENT-CLASS-285-227 US-PATENT-CLASS-403-164 US-PATENT-4,598,428	N86-32589* #	c 31	NAS 1.71:MFS-28153-1 NASA-CASE-MFS-28153-1 US-PATENT-APPL-SN-875891
N86-27630*	c 37	NASA-CASE-LAR-13250-1 US-PATENT-APPL-SN-573162 US-PATENT-CLASS-403-312 US-PATENT-CLASS-403-388 US-PATENT-CLASS-403-408.1 US-PATENT-4,579,475	N86-29650* #	c 74	NASA-CASE-GSC-12911-1 US-PATENT-APPL-SN-606426 US-PATENT-CLASS-350-315 US-PATENT-CLASS-350-318 US-PATENT-CLASS-356-402 US-PATENT-CLASS-356-419 US-PATENT-4,599,001	N86-32624*	c 33	NASA-CASE-GSC-12958-1 US-PATENT-APPL-SN-727035 US-PATENT-CLASS-331-108D US-PATENT-CLASS-331-116R US-PATENT-CLASS-331-66 US-PATENT-CLASS-374-183 US-PATENT-4,603,306
N86-27706*	c 44	NASA-CASE-NPO-16236-1 US-PATENT-APPL-SN-582495 US-PATENT-CLASS-126-418 US-PATENT-CLASS-126-419 US-PATENT-CLASS-126-438 US-PATENT-4,586,487	N86-31726* #	c 27	NASA-CASE-ARC-11421-2 US-PATENT-APPL-SN-739760 US-PATENT-CLASS-428-473.5 US-PATENT-CLASS-528-170 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-321 US-PATENT-CLASS-528-322 US-PATENT-4,600,769	N86-32695* #	c 35	NASA-CASE-NPO-16479-1CU US-PATENT-APPL-SN-719794 US-PATENT-CLASS-73-502 US-PATENT-CLASS-73-521 US-PATENT-4,602,509
N86-28131*	c 24	NASA-CASE-ARC-11615-1SB US-PATENT-APPL-SN-706682 US-PATENT-CLASS-428-116 US-PATENT-CLASS-428-408 US-PATENT-CLASS-428-921 US-PATENT-CLASS-526-265 US-PATENT-4,598,007	N86-31727*	c 27	NASA-CASE-LAR-13351-1 US-PATENT-APPL-SN-643589 US-PATENT-CLASS-264-212 US-PATENT-CLASS-264-236 US-PATENT-CLASS-427-162 US-PATENT-CLASS-427-164 US-PATENT-CLASS-427-165 US-PATENT-CLASS-428-336 US-PATENT-CLASS-428-373.5 US-PATENT-4,603,061	N86-32696*	c 35	NASA-CASE-LAR-13294-1 US-PATENT-APPL-SN-706681 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-862.04 US-PATENT-CLASS-73-862.61 US-PATENT-4,604,903
N86-28618*	c 54	NASA-CASE-ARC-11616-1 US-PATENT-APPL-SN-684193 US-PATENT-CLASS-128-202.11 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-2.1R US-PATENT-CLASS-414-1 US-PATENT-CLASS-414-5 US-PATENT-CLASS-414-7 US-PATENT-CLASS-414-8 US-PATENT-4,593,415	N86-32266*	c 74	NASA-CASE-GSC-12761-1 US-PATENT-APPL-SN-406820 US-PATENT-CLASS-356-4.5 US-PATENT-CLASS-356-5 US-PATENT-4,600,299	N86-32697*	c 35	NAS 1.71:ARC-11510-1 NASA-CASE-ARC-11510-1 US-PATENT-APPL-SN-602049 US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-356-72 US-PATENT-CLASS-356-73 US-PATENT-CLASS-434-4 US-PATENT-4,600,301
N86-28619*	c 54	NASA-CASE-ARC-11610-1 US-PATENT-APPL-SN-684190 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-2-2.1R US-PATENT-CLASS-285-168 US-PATENT-4,598,427	N86-32447*	c 09	NASA-CASE-ARC-11504-1 US-PATENT-APPL-SN-565481 US-PATENT-CLASS-356-73 US-PATENT-4,605,303	N86-32698*	c 35	NASA-CASE-MFS-25833-1 US-PATENT-APPL-SN-473827 US-PATENT-CLASS-324-226 US-PATENT-CLASS-324-238 US-PATENT-CLASS-324-240 US-PATENT-CLASS-324-262 US-PATENT-CLASS-73-37.5 US-PATENT-4,551,677
N86-28620*	c 54	NASA-CASE-ARC-11543-1 US-PATENT-APPL-SN-684192 US-PATENT-CLASS-138-120 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-168 US-PATENT-CLASS-414-7 US-PATENT-4,594,734	N86-32525*	c 23	NASA-CASE-ARC-11506-2 US-PATENT-APPL-SN-641142 US-PATENT-CLASS-528-108 US-PATENT-CLASS-528-124 US-PATENT-CLASS-528-337 US-PATENT-CLASS-528-352 US-PATENT-CLASS-528-399 US-PATENT-CLASS-528-406 US-PATENT-CLASS-528-407 US-PATENT-4,587,324	N86-32736* #	c 37	NASA-CASE-MFS-19796-1 US-PATENT-APPL-SN-770920 US-PATENT-CLASS-138-97 US-PATENT-CLASS-165-76 US-PATENT-CLASS-228-119 US-PATENT-CLASS-29-402.16 US-PATENT-4,605,155
N86-28732*	c 74	NASA-CASE-GSC-12825-1 US-PATENT-APPL-SN-698641 US-PATENT-CLASS-350-276R US-PATENT-CLASS-350-505 US-PATENT-CLASS-354-479 US-PATENT-CLASS-358-222 US-PATENT-4,598,981	N86-32526* #	c 23	NAS 1.71:LAR-13555-1 NASA-CASE-LAR-13555-1 US-PATENT-APPL-SN-871207	N86-32737*	c 37	NASA-CASE-LAR-13081-1 US-PATENT-APPL-SN-760378 US-PATENT-CLASS-52-111 US-PATENT-CLASS-52-632 US-PATENT-CLASS-52-645 US-PATENT-CLASS-52-646 US-PATENT-4,604,844
N86-28760*	c 76	NASA-CASE-NPO-15904-1 US-PATENT-APPL-SN-465369 US-PATENT-CLASS-156-DIG.88 US-PATENT-CLASS-156-610 US-PATENT-CLASS-156-624 US-PATENT-4,596,626	N86-32550*	c 26	NASA-CASE-GSC-12880-1 US-PATENT-APPL-SN-590925 US-PATENT-CLASS-427-191 US-PATENT-CLASS-427-192 US-PATENT-CLASS-427-421 US-PATENT-CLASS-427-427 US-PATENT-4,552,784	N86-32738*	c 37	NASA-CASE-MFS-28059-1 US-PATENT-APPL-SN-709255 US-PATENT-CLASS-417-475 US-PATENT-4,604,038
			N86-32551*	c 26	NASA-CASE-NPO-15658-1 US-PATENT-APPL-SN-451896	N86-32875*	c 44	NASA-CASE-LEW-14177-1 US-PATENT-APPL-SN-669140 US-PATENT-CLASS-136-261 US-PATENT-CLASS-148-1.5 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-576B US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-91

N86-33127*	c 72	US-PATENT-4,608,452	N87-14704* #	c 37	US-PATENT-CLASS-148-188	N87-17034*	c 37	US-PATENT-4,632,548
		NASA-CASE-NPO-16372-1			US-PATENT-CLASS-148-189			NASA-CASE-NPO-16321-1CU
		US-PATENT-APPL-SN-703847			US-PATENT-CLASS-148-190			US-PATENT-APPL-SN-692802
		US-PATENT-CLASS-250-336.1			US-PATENT-CLASS-29-580			US-PATENT-CLASS-305-36
		US-PATENT-CLASS-250-338			US-PATENT-CLASS-29-591			US-PATENT-CLASS-305-51
N86-33138* #	c 74	US-PATENT-CLASS-250-340	N87-14863* #	c 60	US-PATENT-4,618,380	N87-17035*	c 37	US-PATENT-CLASS-305-58PC
		US-PATENT-4,600,840			NAS 1.71:NPO-16892-1-CU			US-PATENT-CLASS-305-58R
		NAS 1.71:NPO-16869			NASA-CASE-NPO-16892-1-CU			US-PATENT-CLASS-474-220
		NASA-CASE-NPO-16869-1CU			US-PATENT-APPL-SN-921573			US-PATENT-4,626,046
		US-PATENT-APPL-SN-867986			NAS 1.71:MSC-20964-1			NASA-CASE-MSC-20857-1
N87-10231* #	c 33	NAS 1.71:NPO-16784-1	N87-14971*	c 74	NASA-CASE-MSC-20964-1	N87-17036*	c 37	US-PATENT-APPL-SN-783886
		NASA-CASE-NPO-16784-1			US-PATENT-APPL-SN-878916			US-PATENT-CLASS-134-166C
		US-PATENT-APPL-SN-879757			NASA-CASE-MFS-26000-1			US-PATENT-CLASS-134-93
		NASA-CASE-NPO-16045-1			US-PATENT-APPL-SN-571615			US-PATENT-CLASS-210-282
		US-PATENT-APPL-SN-641146	N87-15304*	c 27	US-PATENT-CLASS-356-246			US-PATENT-4,635,663
N87-13313*	c 76	US-PATENT-CLASS-250-338			US-PATENT-CLASS-372-61	N87-17036*	c 37	NASA-CASE-MSC-20162-1
		US-PATENT-CLASS-250-370			US-PATENT-4,614,428			US-PATENT-APPL-SN-764805
		US-PATENT-CLASS-357-23.1			NASA-CASE-ARC-11429-4CU			US-PATENT-CLASS-135-903
		US-PATENT-CLASS-357-23.12			US-PATENT-APPL-SN-725686			US-PATENT-CLASS-160-23R
		US-PATENT-CLASS-357-29	N87-15390* #	c 32	US-PATENT-CLASS-525-282			US-PATENT-CLASS-160-265
N87-14314*	c 05	US-PATENT-CLASS-357-30			US-PATENT-4,618,652			US-PATENT-CLASS-244-121
		US-PATENT-CLASS-357-52			NAS 1.71:NPO-16632-1-CU			US-PATENT-CLASS-244-158R
		US-PATENT-4,605,846			NASA-CASE-NPO-16632-1-CU			US-PATENT-CLASS-296-100
		NASA-CASE-LAR-13173-1			US-PATENT-APPL-SN-890586	N87-17037*	c 37	US-PATENT-4,637,447
N87-14355*	c 09	US-PATENT-APPL-SN-690274	N87-15413* #	c 33	NAS 1.71:NPO-16932-1			NASA-CASE-MSC-20475-1
		US-PATENT-CLASS-244-118.1			NASA-CASE-NPO-16932-1CU			US-PATENT-APPL-SN-725689
		US-PATENT-CLASS-244-137-A			US-PATENT-APPL-SN-913433			US-PATENT-CLASS-192-46
		US-PATENT-CLASS-244-17.27	N87-15465* #	c 37	NAS 1.71:MSC-20761-1			US-PATENT-CLASS-192-67R
		US-PATENT-CLASS-248-638			NASA-CASE-MSC-20761-1	N87-17038*	c 37	US-PATENT-4,635,773
N87-14373*	c 18	US-PATENT-CLASS-89-1.54			US-PATENT-APPL-SN-913446			NASA-CASE-GSC-12957-1
		US-PATENT-4,616,793			NASA-CASE-NPO-15813-2			US-PATENT-APPL-SN-800193
		NASA-CASE-MFS-28057-1	N87-15882*	c 76	US-PATENT-APPL-SN-706564			US-PATENT-CLASS-310-90.5
		US-PATENT-APPL-SN-729766			US-PATENT-CLASS-148-174			US-PATENT-4,634,191
N87-14373*	c 18	US-PATENT-CLASS-350-319			US-PATENT-CLASS-148-175	N87-17399*	c 44	NASA-CASE-NPO-16526-1CU
		US-PATENT-4,618,215			US-PATENT-CLASS-29-575			US-PATENT-APPL-SN-809975
		NASA-CASE-MSC-20635-1	N87-16793*	c 02	US-PATENT-CLASS-29-576-E			US-PATENT-CLASS-136-249
		US-PATENT-APPL-SN-588039			US-PATENT-CLASS-29-576-J	N87-17493*	c 74	US-PATENT-4,631,352
		US-PATENT-CLASS-16-294			US-PATENT-CLASS-29-576-W			NASA-CASE-MFS-29134-1
N87-14413* #	c 18	US-PATENT-CLASS-16-370			US-PATENT-CLASS-29-578			US-PATENT-APPL-SN-783890
		US-PATENT-CLASS-403-102	N87-16828*	c 07	US-PATENT-4,612,072			US-PATENT-CLASS-219-124.34
		US-PATENT-CLASS-403-119			NASA-CASE-LAR-13255-1	N87-18679* #	c 29	US-PATENT-CLASS-219-130.01
		US-PATENT-CLASS-403-146			US-PATENT-APPL-SN-550681			US-PATENT-4,633,060
		US-PATENT-CLASS-403-163			US-PATENT-CLASS-244-130			NAS 1.71:MFS-28139-1
N87-14413* #	c 18	US-PATENT-CLASS-403-85			US-PATENT-CLASS-244-200			NASA-CASE-MFS-28139-1
		US-PATENT-4,615,637	N87-16863*	c 17	US-PATENT-CLASS-244-204	N87-18692* #	c 32	US-PATENT-APPL-SN-911851
		NAS 1.71:LAR-13490-1			US-PATENT-CLASS-244-35R			NAS 1.71:MSC-20865-1
		NASA-CASE-LAR-13490-1			US-PATENT-4,619,423			NASA-CASE-MSC-20865-1
		US-PATENT-APPL-SN-899683			NASA-CASE-LAR-13134-2	N87-18817* #	c 37	US-PATENT-APPL-SN-924472
N87-14420*	c 20	US-PATENT-CLASS-239-132.5			US-PATENT-APPL-SN-846462			NAS 1.71:MFS-28161-1
		US-PATENT-CLASS-239-403			US-PATENT-CLASS-244-130			NASA-CASE-MFS-28161-1
		US-PATENT-CLASS-239-425			US-PATENT-CLASS-244-55			US-PATENT-APPL-SN-942159
		US-PATENT-CLASS-60-258	N87-16875*	c 20	US-PATENT-4,629,147	N87-18818* #	c 37	NAS 1.71:MSC-20907-1
		US-PATENT-CLASS-60-746			NASA-CASE-LAR-13006-1			NASA-CASE-MSC-20907-1
N87-14482*	c 26	US-PATENT-4,621,492			US-PATENT-APPL-SN-470113			US-PATENT-APPL-SN-927992
		NASA-CASE-LEW-13834-1			US-PATENT-CLASS-340-825.5	N87-20999*	c 08	NASA-CASE-LAR-13280-1
		US-PATENT-APPL-SN-478131			US-PATENT-CLASS-340-870.18			US-PATENT-APPL-SN-790556
		US-PATENT-CLASS-148-429			US-PATENT-CLASS-371-63			US-PATENT-CLASS-244-76-R
		US-PATENT-CLASS-420-460	N87-16907*	c 27	US-PATENT-CLASS-375-88			US-PATENT-CLASS-340-967
N87-14515*	c 27	US-PATENT-4,610,736			US-PATENT-4,631,538	N87-21111*	c 27	US-PATENT-4,648,569
		NASA-CASE-LAR-13316-2			NASA-CASE-LEW-14037-1			NASA-CASE-MFS-28090-1
		US-PATENT-APPL-SN-760791			US-PATENT-APPL-SN-636463			US-PATENT-APPL-SN-805012
		US-PATENT-CLASS-260-544-P			US-PATENT-CLASS-219-275			US-PATENT-CLASS-65-13
		US-PATENT-4,622,182	N87-16908*	c 27	US-PATENT-CLASS-60-203.1			US-PATENT-CLASS-65-134
N87-14516*	c 27	NASA-CASE-LAR-13318-1			US-PATENT-4,608,821	N87-21112*	c 27	US-PATENT-CLASS-65-136
		US-PATENT-APPL-SN-781813			NASA-CASE-LAR-13118-2			US-PATENT-CLASS-65-2
		US-PATENT-CLASS-428-262			US-PATENT-APPL-SN-760797			US-PATENT-4,654,065
		US-PATENT-CLASS-428-447			US-PATENT-CLASS-560-104	N87-21159*	c 31	NASA-CASE-ARC-11511-2
		US-PATENT-CLASS-528-26			US-PATENT-4,638,083			US-PATENT-APPL-SN-754362
N87-14559*	c 32	US-PATENT-4,624,888			NASA-CASE-ARC-11429-3CU			US-PATENT-CLASS-528-220
		NASA-CASE-LAR-13310-1			US-PATENT-APPL-SN-725725			US-PATENT-CLASS-528-229
		US-PATENT-APPL-SN-709257			US-PATENT-CLASS-546-339			US-PATENT-CLASS-528-322
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-546-346			US-PATENT-CLASS-528-327
		US-PATENT-CLASS-367-99	N87-16909*	c 27	US-PATENT-CLASS-546-350			US-PATENT-CLASS-528-331
N87-14594*	c 33	US-PATENT-CLASS-73-597			US-PATENT-4,626,593	N87-21159*	c 31	US-PATENT-CLASS-528-362
		US-PATENT-CLASS-73-615			NASA-CASE-ARC-11428-2			US-PATENT-4,649,189
		US-PATENT-4,624,142			US-PATENT-APPL-SN-760374			NASA-CASE-NPO-16393-1-CU
		NASA-CASE-NPO-16299-1			US-PATENT-CLASS-428-421			US-PATENT-APPL-SN-701486
		US-PATENT-APPL-SN-541526			US-PATENT-CLASS-428-473.5			US-PATENT-CLASS-62-384
N87-14669*	c 35	US-PATENT-CLASS-356-389			US-PATENT-CLASS-428-500	N87-21160*	c 31	US-PATENT-CLASS-62-48
		US-PATENT-4,623,255			US-PATENT-CLASS-428-704			US-PATENT-CLASS-62-514-R
		NASA-CASE-LAR-13268-1			US-PATENT-CLASS-528-168			US-PATENT-4,641,499
		US-PATENT-APPL-SN-727034			US-PATENT-CLASS-528-321			NASA-CASE-LEW-13899-1
		US-PATENT-CLASS-356-28.5	N87-16918*	c 31	US-PATENT-CLASS-528-322			US-PATENT-APPL-SN-775968
N87-14670*	c 35	US-PATENT-CLASS-356-301			US-PATENT-4,634,759			US-PATENT-CLASS-156-345
		US-PATENT-4,624,561			NASA-CASE-ARC-11363-1			US-PATENT-CLASS-156-643
		NASA-CASE-MFS-25981-1			US-PATENT-APPL-SN-500046			US-PATENT-CLASS-156-646
		US-PATENT-APPL-SN-657310			US-PATENT-CLASS-52-126.5	N87-21206*	c 32	US-PATENT-CLASS-156-659.1
		US-PATENT-CLASS-73-462			US-PATENT-CLASS-52-309.15			US-PATENT-CLASS-156-661.1
N87-14671*	c 35	US-PATENT-CLASS-73-473			US-PATENT-CLASS-52-391			US-PATENT-CLASS-156-904
		US-PATENT-CLASS-73-477			US-PATENT-CLASS-52-511			US-PATENT-CLASS-204-298
		US-PATENT-4,619,142			US-PATENT-CLASS-52-814			US-PATENT-4,620,898
		NASA-CASE-GSC-12956-1	N87-17026*	c 36	US-PATENT-4,637,181			NASA-CASE-LAR-13455-1
		US-PATENT-APPL-SN-745977			NASA-CASE-ARC-11547-1			US-PATENT-APPL-SN-804040
		US-PATENT-CLASS-148-187			US-PATENT-APPL-SN-692745			US-PATENT-CLASS-250-341
					US-PATENT-CLASS-356-28			US-PATENT-CLASS-374-122
					US-PATENT-CLASS-356-28.5			US-PATENT-CLASS-374-9

N87-21207*	c 32	US-PATENT-4,645,358	N87-21661*	c 72	US-PATENT-CLASS-250-424	N87-22977*	c 37	US-PATENT-4,650,385
		NASA-CASE-NPO-16256-1			US-PATENT-CLASS-250-427			NASA-CASE-MFS-25964-2
		US-PATENT-APPL-SN-638586			US-PATENT-CLASS-313-359.1			US-PATENT-APPL-SN-692801
		US-PATENT-CLASS-329-107			US-PATENT-CLASS-313-361.1			US-PATENT-APPL-SN-853361
		US-PATENT-CLASS-375-110			US-PATENT-CLASS-313-362.1			US-PATENT-CLASS-285-305
		US-PATENT-CLASS-375-120			US-PATENT-4,649,278			US-PATENT-CLASS-285-81
		US-PATENT-CLASS-375-23			NASA-CASE-NPO-16640-1-CU			US-PATENT-CLASS-285-85
		US-PATENT-CLASS-455-608			US-PATENT-APPL-SN-852468			US-PATENT-CLASS-285-91
		US-PATENT-4,648,133			US-PATENT-CLASS-250-251			US-PATENT-4,655,482
N87-21232*	c 33	NASA-CASE-GSC-13018-1			US-PATENT-CLASS-250-396-R	N87-22985*	c 37	NASA-CASE-MSC-20979-1
		US-PATENT-APPL-SN-862959			US-PATENT-CLASS-250-423-P			US-PATENT-APPL-SN-796053
		US-PATENT-CLASS-331-116-R			US-PATENT-CLASS-376-127			US-PATENT-CLASS-244-1161
		US-PATENT-CLASS-331-117-R			US-PATENT-4,649,273			US-PATENT-4,664,344
		US-PATENT-CLASS-331-56	N87-21679*	c 74	NASA-CASE-GSC-12897-1	N87-23259*	c 74	NASA-CASE-NPO-16558-1-CU
		US-PATENT-4,660,000			US-PATENT-APPL-SN-606432			US-PATENT-APPL-SN-779744
N87-21233*	c 33	NASA-CASE-MFS-28080-1			US-PATENT-CLASS-350-6.5			US-PATENT-CLASS-250-231-GY
		US-PATENT-APPL-SN-775548			US-PATENT-4,647,144			US-PATENT-CLASS-356-350
		US-PATENT-CLASS-318-138	N87-21755*	c 85	NASA-CASE-KSC-11282-1			US-PATENT-4,662,751
		US-PATENT-CLASS-318-254			US-PATENT-APPL-SN-751644	N87-23286*	c 76	NASA-CASE-NPO-15800-2
		US-PATENT-CLASS-318-439			US-PATENT-CLASS-180-19.2			US-PATENT-APPL-SN-442815
		US-PATENT-4,644,234			US-PATENT-CLASS-180-305			US-PATENT-APPL-SN-674395
N87-21234*	c 33	NASA-CASE-LEW-13935-1			US-PATENT-CLASS-280-47.11			US-PATENT-CLASS-156-607
		US-PATENT-APPL-SN-700255			US-PATENT-CLASS-296-20			US-PATENT-CLASS-156-617-H
		US-PATENT-CLASS-250-423-R			US-PATENT-CLASS-5-81-R			US-PATENT-CLASS-156-617-SP
		US-PATENT-CLASS-315-111.81			US-PATENT-CLASS-60-415			US-PATENT-4,654,110
		US-PATENT-4,642,523	N87-22678*	c 06	US-PATENT-4,646,860	N87-23631*	c 08	NASA-CASE-ARC-11633-1
N87-21235*	c 33	NASA-CASE-LAR-13151-1			NASA-CASE-LAR-12984-1			US-PATENT-APPL-SN-846439
		US-PATENT-APPL-SN-683101			US-PATENT-APPL-SN-578387			US-PATENT-CLASS-416-114
		US-PATENT-CLASS-307-261			US-PATENT-CLASS-244-1-R			US-PATENT-CLASS-416-158
		US-PATENT-CLASS-307-354			US-PATENT-CLASS-340-945			US-PATENT-4,669,958
		US-PATENT-CLASS-328-147			US-PATENT-CLASS-340-971	N87-23698*	c 23	NASA-CASE-ARC-11643-1-SB
		US-PATENT-CLASS-328-164			US-PATENT-CLASS-340-975			US-PATENT-APPL-SN-901496
		US-PATENT-CLASS-328-28			US-PATENT-CLASS-73-178-R			US-PATENT-CLASS-423-276
		US-PATENT-4,652,833			US-PATENT-4,663-627			US-PATENT-CLASS-423-284
N87-21255*	c 34	NASA-CASE-ARC-11631-1	N87-22845*	c 27	NASA-CASE-ARC-11429-2-CU			US-PATENT-4,676,962
		US-PATENT-APPL-SN-846428			US-PATENT-APPL-SN-553339	N87-23713* #	c 25	NASA-CASE-LAR-13597-1-CU
		US-PATENT-CLASS-239-426			US-PATENT-APPL-SN-725727			US-PATENT-APPL-SN-008199
		US-PATENT-CLASS-239-434			US-PATENT-CLASS-524-404	N87-23736*	c 27	NASA-CASE-LEW-14072-3
		US-PATENT-CLASS-239-545			US-PATENT-CLASS-524-548			US-PATENT-APPL-SN-834977
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-525-182			US-PATENT-CLASS-428-421
		US-PATENT-4,648,267			US-PATENT-CLASS-526-262			US-PATENT-CLASS-428-422
N87-21304*	c 35	NASA-CASE-NPO-15617-1			US-PATENT-4,526,925			US-PATENT-CLASS-428-447
		US-PATENT-APPL-SN-403849			US-PATENT-4,647,615			US-PATENT-CLASS-428-473.5
		US-PATENT-CLASS-74-424.8-R	N87-22847*	c 27	NASA-CASE-LAR-13444-1-CU			US-PATENT-CLASS-428-702
		US-PATENT-CLASS-74-441			US-PATENT-APPL-SN-734366			US-PATENT-4,664,980
		US-PATENT-CLASS-74-458			US-PATENT-CLASS-528-229	N87-23737* #	c 27	NAS 1.71:ARC-11652-1
		US-PATENT-CLASS-74-468			US-PATENT-CLASS-546-262			NASA-CASE-ARC-11652-1
		US-PATENT-CLASS-74-89.15			US-PATENT-CLASS-546-264			US-PATENT-APPL-SN-008242
		US-PATENT-4,586,394			US-PATENT-CLASS-564-330	N87-23751*	c 27	NASA-CASE-ARC-11533-1
N87-21332*	c 37	NASA-CASE-MFS-28058-1			US-PATENT-CLASS-564-396			US-PATENT-APPL-SN-641147
		US-PATENT-APPL-SN-751691			US-PATENT-CLASS-564-430			US-PATENT-CLASS-548-413
		US-PATENT-CLASS-137-606			US-PATENT-4,663,483			US-PATENT-4,670,565
		US-PATENT-CLASS-251-165	N87-22848*	c 27	NASA-CASE-LAR-13452-1	N87-23879*	c 33	NASA-CASE-NPO-16467-1-CU
		US-PATENT-4,657,044			US-PATENT-APPL-SN-838655			US-PATENT-APPL-SN-838648
N87-21333*	c 37	NASA-CASE-MFS-25956-1			US-PATENT-CLASS-525-36			US-PATENT-CLASS-136-249
		US-PATENT-APPL-SN-580397			US-PATENT-CLASS-528-176			US-PATENT-CLASS-136-255
		US-PATENT-CLASS-248-316.4			US-PATENT-CLASS-528-184			US-PATENT-CLASS-357-30
		US-PATENT-CLASS-248-550			US-PATENT-CLASS-528-192			US-PATENT-CLASS-357-35
		US-PATENT-4,582,289			US-PATENT-CLASS-528-193			US-PATENT-4,665,277
N87-21334*	c 37	NASA-CASE-NPO-16423-1-CU	N87-22894*	c 33	NASA-CASE-NPO-16337-1-CU	N87-23904*	c 33	NASA-CASE-GSC-12773-2
		US-PATENT-APPL-SN-765978			US-PATENT-APPL-SN-683111			US-PATENT-APPL-SN-809851
		US-PATENT-CLASS-228-124			US-PATENT-CLASS-324-158-D			US-PATENT-CLASS-290-1-R
		US-PATENT-CLASS-228-208			US-PATENT-CLASS-324-158-R			US-PATENT-CLASS-310-15
		US-PATENT-CLASS-228-209			US-PATENT-CLASS-324-158-R			US-PATENT-CLASS-310-30
		US-PATENT-CLASS-427-229			US-PATENT-4,661,770			US-PATENT-4,675,563
		US-PATENT-4,650,108	N87-22895*	c 33	NASA-CASE-GSC-12961-1	N87-23941* #	c 35	NAS 1.71:AR-13689-1
N87-21410*	c 44	NASA-CASE-MFS-25978-1			US-PATENT-APPL-SN-754707			NASA-CASE-LAR-13689-1-NP
		US-PATENT-APPL-SN-636459			US-PATENT-CLASS-307-490			US-PATENT-APPL-SN-929869
		US-PATENT-CLASS-307-131			US-PATENT-CLASS-330-107	N87-23944*	c 35	NASA-CASE-MFS-28087-1
		US-PATENT-CLASS-307-31			US-PATENT-CLASS-330-294			US-PATENT-APPL-SN-805010
		US-PATENT-CLASS-307-64			US-PATENT-CLASS-331-177-R			US-PATENT-CLASS-373-10
		US-PATENT-CLASS-307-66			US-PATENT-CLASS-333-214			US-PATENT-CLASS-373-15
		US-PATENT-CLASS-307-80			US-PATENT-CLASS-333-217			US-PATENT-4,677,642
		US-PATENT-CLASS-318-107			US-PATENT-4,644,306	N87-23960*	c 36	NASA-CASE-NPO-16542-1-CU
		US-PATENT-CLASS-318-161	N87-22950*	c 34	NASA-CASE-MSC-20841-1			US-PATENT-APPL-SN-781812
		US-PATENT-4,649,287			US-PATENT-APPL-SN-755288			US-PATENT-CLASS-350-3.73
N87-21591*	c 60	NASA-CASE-NPO-15982-1			US-PATENT-CLASS-165-1			US-PATENT-CLASS-350-3.81
		US-PATENT-APPL-SN-673685			US-PATENT-CLASS-165-104.14			US-PATENT-CLASS-372-103
		US-PATENT-CLASS-371-37			US-PATENT-CLASS-165-104.25			US-PATENT-CLASS-372-18
		US-PATENT-CLASS-371-40			US-PATENT-CLASS-165-104.26			US-PATENT-CLASS-372-43
		US-PATENT-4,649,541			US-PATENT-CLASS-165-34			US-PATENT-4,677,629
N87-21652*	c 71	NASA-CASE-LAR-13111-1-CU			US-PATENT-4,664,177	N87-23961*	c 36	NASA-CASE-NPO-16433-1
		US-PATENT-APPL-SN-751695	N87-22953*	c 35	NASA-CASE-NPO-16544-1-CU			US-PATENT-APPL-SN-790594
		US-PATENT-CLASS-73-583			US-PATENT-APPL-SN-746809			US-PATENT-CLASS-372-68
		US-PATENT-CLASS-73-589			US-PATENT-CLASS-324-61-R			US-PATENT-CLASS-372-81
		US-PATENT-CLASS-73-599			US-PATENT-CLASS-73-336.5			US-PATENT-4,677,636
		US-PATENT-4,644,794			US-PATENT-4,662,220	N87-23970*	c 37	NASA-CASE-NPO-15482-1
N87-21653*	c 71	NASA-CASE-LAR-13440-1	N87-22976*	c 37	NASA-CASE-LAR-13009-2			US-PATENT-APPL-SN-526739
		US-PATENT-APPL-SN-775989			US-PATENT-APPL-SN-495380			US-PATENT-CLASS-310-306
		US-PATENT-CLASS-73-1-DV			US-PATENT-APPL-SN-698279			US-PATENT-CLASS-337-393
		US-PATENT-CLASS-73-599			US-PATENT-CLASS-411-166			US-PATENT-4,665,334
		US-PATENT-4,649,750			US-PATENT-CLASS-411-368	N87-23981*	c 37	NASA-CASE-MSC-20797-1
N87-21660*	c 72	NASA-CASE-NPO-16061-1-CU			US-PATENT-CLASS-411-424			US-PATENT-APPL-SN-771537
		US-PATENT-APPL-SN-729768			US-PATENT-CLASS-411-427			US-PATENT-CLASS-156-286
		US-PATENT-CLASS-250-288			US-PATENT-CLASS-411-531			US-PATENT-CLASS-156-289
		US-PATENT-CLASS-250-423-R			US-PATENT-4,572,699			US-PATENT-CLASS-156-298

		US-PATENT-CLASS-156-307.1		US-PATENT-APPL-SN-649327			US-PATENT-4,689,421
		US-PATENT-CLASS-156-307.3		US-PATENT-CLASS-371-43	N87-28647*	c 26	NASA-CASE-LEW-14262-1
		US-PATENT-CLASS-156-307.7		US-PATENT-CLASS-375-120			US-PATENT-APPL-SN-832206
		US-PATENT-CLASS-156-87		US-PATENT-CLASS-375-54			US-PATENT-CLASS-148-162
		US-PATENT-4,676,853		US-PATENT-CLASS-375-59			US-PATENT-CLASS-148-410
N87-23982*	c 37	NASA-CASE-LAR-13100-1		US-PATENT-CLASS-375-76	N87-28656*	c 27	US-PATENT-4,676,846
		US-PATENT-APPL-SN-831377		US-PATENT-4,682,343			NASA-CASE-LEW-14392-1
		US-PATENT-CLASS-250-238	N87-25555* #	NASA-CASE-MS-C-21166-1			US-PATENT-APPL-SN-886149
		US-PATENT-CLASS-250-352		US-PATENT-APPL-SN-032685			US-PATENT-CLASS-264-332
		US-PATENT-CLASS-62-514-R	N87-25558* #	NASA-CASE-LAR-13564-1			US-PATENT-CLASS-264-60
		US-PATENT-4,672,202		US-PATENT-APPL-SN-044180			US-PATENT-CLASS-264-63
N87-23983*	c 37	NASA-CASE-LAR-13198-1	N87-25561* #	NASA-CASE-LAR-13680-1			US-PATENT-CLASS-428-367
		US-PATENT-APPL-SN-729704		US-PATENT-APPL-SN-052941			US-PATENT-4,689,188
		US-PATENT-CLASS-60-634	N87-25567*	NASA-CASE-NPO-16497-1-CU	N87-28657*	c 27	NASA-CASE-LAR-13450-1
		US-PATENT-CLASS-60-638		US-PATENT-APPL-SN-783887			US-PATENT-APPL-SN-840816
		US-PATENT-CLASS-89-1.14		US-PATENT-CLASS-307-425			US-PATENT-CLASS-428-290
		US-PATENT-4,669,354		US-PATENT-CLASS-372-20			US-PATENT-CLASS-525-426
N87-24564*	c 27	NASA-CASE-ARC-11533-3		US-PATENT-CLASS-372-4			US-PATENT-CLASS-525-432
		US-PATENT-APPL-SN-852467		US-PATENT-CLASS-372-69			US-PATENT-CLASS-525-436
		US-PATENT-CLASS-528-413		US-PATENT-CLASS-372-99			US-PATENT-CLASS-525-903
		US-PATENT-4,675,379		US-PATENT-4,682,053			US-PATENT-4,695,610
N87-24575* #	c 27	NAS 1.71-LAR-13633-1	N87-25573*	NASA-CASE-ARC-11620-1	N87-28831*	c 33	NASA-CASE-LAR-13407-1
		NASA-CASE-LAR-13633-1		US-PATENT-APPL-SN-795945			US-PATENT-APPL-SN-804196
		US-PATENT-APPL-SN-011693		US-PATENT-CLASS-137-614.11			US-PATENT-CLASS-313-505
N87-24689*	c 37	NASA-CASE-MFS-28110-1		US-PATENT-CLASS-137-614.18			US-PATENT-CLASS-313-506
		US-PATENT-APPL-SN-852466		US-PATENT-CLASS-251-129.15			US-PATENT-CLASS-313-509
		US-PATENT-CLASS-239-433		US-PATENT-CLASS-251-175			US-PATENT-4,689,522
		US-PATENT-CLASS-239-596		US-PATENT-4,681,142	N87-28832*	c 33	NASA-CASE-LEW-14108-1
		US-PATENT-CLASS-239-600	N87-25582*	NASA-CASE-MS-C-20910-1			US-PATENT-APPL-SN-732321
		US-PATENT-4,666,086		US-PATENT-APPL-SN-783888			US-PATENT-CLASS-313-237
N87-24874*	c 52	NASA-CASE-MFS-26011-1-SB		US-PATENT-CLASS-244-161			US-PATENT-CLASS-313-278
		US-PATENT-APPL-SN-655605		US-PATENT-CLASS-292-DIG.49			US-PATENT-4,687,964
		US-PATENT-CLASS-351-206		US-PATENT-CLASS-292-201	N87-28833*	c 33	NASA-CASE-ARC-11613-1
		US-PATENT-CLASS-351-208		US-PATENT-CLASS-292-64			US-PATENT-APPL-SN-739792
		US-PATENT-CLASS-354-62		US-PATENT-4,682,745			US-PATENT-CLASS-244-134-D
		US-PATENT-4,669,836	N87-25585* #	NASA-CASE-LEW-14196-2			US-PATENT-CLASS-318-116
N87-25334*	c 09	NASA-CASE-LAR-13522-1-SB		US-PATENT-APPL-SN-054983			US-PATENT-4,690,353
		US-PATENT-APPL-SN-890575	N87-25601*	NASA-CASE-MFS-28118-1	N87-28867*	c 34	NASA-CASE-MS-C-20946-1
		US-PATENT-CLASS-73-147		US-PATENT-APPL-SN-886121			US-PATENT-APPL-SN-875799
		US-PATENT-CLASS-73-856		US-PATENT-CLASS-73-809			US-PATENT-CASE-165-1
		US-PATENT-4,682,494		US-PATENT-CLASS-73-810			US-PATENT-CASE-165-104.25
N87-25344*	c 14	NASA-CASE-ARC-11646-1		US-PATENT-4,676,110			US-PATENT-CASE-165-104.26
		US-PATENT-APPL-SN-924398	N87-25803* #	NASA-CASE-NPO-17058-1-CU			US-PATENT-CASE-165-13
		US-PATENT-CLASS-434-34		US-PATENT-APPL-SN-060201			US-PATENT-CASE-165-32
		US-PATENT-4,678,438	N87-25843*	NASA-CASE-MFS-29207-1			US-PATENT-CASE-165-41
N87-25348*	c 17	NASA-CASE-MS-C-20821-1		US-PATENT-APPL-SN-713449			US-PATENT-4,687,048
		US-PATENT-APPL-SN-775990		US-PATENT-APPL-SN-783890	N87-28884*	c 35	NASA-CASE-LAR-13512-1
		US-PATENT-CLASS-358-105		US-PATENT-CLASS-219-124.34			US-PATENT-APPL-SN-901113
		US-PATENT-CLASS-358-133		US-PATENT-CLASS-219-130.01			US-PATENT-CLASS-285-137.1
		US-PATENT-CLASS-358-138		US-PATENT-CLASS-219-74			US-PATENT-CLASS-285-901
		US-PATENT-4,682,225		US-PATENT-4,633,060			US-PATENT-CLASS-73-147
N87-25455*	c 26	NASA-CASE-LAR-13474-1-SB		US-PATENT-4,682,006			US-PATENT-CLASS-73-756
		US-PATENT-APPL-SN-840900	N87-25862*	NASA-CASE-MFS-28060-1	N87-29118*	c 54	US-PATENT-4,688,422
		US-PATENT-CLASS-148-6.3		US-PATENT-APPL-SN-706565			NASA-CASE-LAR-13393-1
		US-PATENT-CLASS-204-192.15		US-PATENT-CLASS-356-128			US-PATENT-APPL-SN-760799
		US-PATENT-CLASS-204-192.23		US-PATENT-CLASS-356-129			US-PATENT-CLASS-182-223
		US-PATENT-CLASS-428-607		US-PATENT-4,681,437			US-PATENT-CLASS-182-63
		US-PATENT-CLASS-428-632	N87-25868* #	NASA-CASE-NPO-16808-1-CU			US-PATENT-CLASS-182-82
		US-PATENT-CLASS-428-651		US-PATENT-APPL-SN-027981			US-PATENT-4,685,535
		US-PATENT-CLASS-428-660	N87-27713*	NASA-CASE-LAR-13489-1	N87-29360*	c 76	NASA-CASE-LAR-13476-1-CU
		US-PATENT-4,681,818		US-PATENT-APPL-SN-890445			US-PATENT-APPL-SN-933961
N87-25469*	c 27	NASA-CASE-ARC-11548-1		US-PATENT-CLASS-285-27			US-PATENT-CLASS-423-338
		US-PATENT-APPL-SN-806572		US-PATENT-CLASS-285-31			US-PATENT-CLASS-423-339
		US-PATENT-CLASS-428-413		US-PATENT-CLASS-285-373			US-PATENT-4,696,808
		US-PATENT-CLASS-428-417		US-PATENT-CLASS-285-421	N87-29372*	c 82	NASA-CASE-LAR-13306-1
		US-PATENT-CLASS-528-108		US-PATENT-CLASS-285-86			US-PATENT-APPL-SN-846430
		US-PATENT-CLASS-528-168		US-PATENT-CLASS-403-341			US-PATENT-CLASS-340-407
		US-PATENT-4,668,589		US-PATENT-4,684,156			US-PATENT-CLASS-434-114
N87-25474* #	c 27	NASA-CASE-LAR-13732-1	N87-27742* #	NASA-CASE-LAR-13150-1			US-PATENT-4,687,444
		US-PATENT-APPL-SN-035430		US-PATENT-APPL-SN-729767	N87-29586* #	c 18	NAS 1.71-LAR-13738-1
N87-25489* #	c 29	NASA-CASE-NPO-17022-1-CU		US-PATENT-CLASS-29-156.5-R			NASA-CASE-LAR-13738-1
		US-PATENT-APPL-SN-066450		US-PATENT-CLASS-92-208			US-PATENT-APPL-SN-073539
N87-25491*	c 31	NASA-CASE-MFS-28044-1		US-PATENT-4,683,809	N87-29650* #	c 26	NAS 1.71-LAR-13632-1
		US-PATENT-APPL-SN-804039	N87-28006*	NASA-CASE-NPO-16567-1-CU			NASA-CASE-LAR-13632-1
		US-PATENT-CLASS-408-1-R		US-PATENT-APPL-SN-760790			US-PATENT-APPL-SN-079316
		US-PATENT-CLASS-51-281-R		US-PATENT-CLASS-250-339	N87-29672* #	c 27	NAS 1.71-MS-C-21082-1
		US-PATENT-4,680,897		US-PATENT-CLASS-250-343			NASA-CASE-MS-C-21082-1
N87-25492*	c 31	NASA-CASE-LAR-13113-1		US-PATENT-CLASS-250-373			US-PATENT-APPL-SN-079320
		US-PATENT-APPL-SN-831371		US-PATENT-CLASS-356-256	N88-14071*	c 02	NASA-CASE-LAR-13286-1
		US-PATENT-CLASS-182-152		US-PATENT-CLASS-356-409			US-PATENT-APPL-SN-686959
		US-PATENT-CLASS-52-108		US-PATENT-CLASS-356-51			US-PATENT-CLASS-114-67R
		US-PATENT-CLASS-52-632		US-PATENT-4,684,258			US-PATENT-CLASS-138-38
		US-PATENT-CLASS-52-646	N87-28416*	NASA-CASE-ARC-11611-1			US-PATENT-CLASS-244-130
		US-PATENT-4,677,803		US-PATENT-APPL-SN-765981			US-PATENT-CLASS-244-199
N87-25495* #	c 31	NASA-CASE-MS-C-21025-1		US-PATENT-CLASS-156-163			US-PATENT-CLASS-244-200
		US-PATENT-APPL-SN-035401		US-PATENT-CLASS-156-229			US-PATENT-CLASS-296-1S
N87-25511*	c 32	NASA-CASE-NPO-16414-1-CU		US-PATENT-CLASS-156-286			US-PATENT-4,706,910
		US-PATENT-APPL-SN-729719		US-PATENT-CLASS-156-382	N88-14083*	c 03	NASA-CASE-LAR-13470-1
		US-PATENT-CLASS-332-23-A		US-PATENT-CLASS-156-494			US-PATENT-APPL-SN-855983
		US-PATENT-CLASS-375-101		US-PATENT-CLASS-264-291			US-PATENT-CLASS-361-218
		US-PATENT-CLASS-375-102		US-PATENT-4,684,424			US-PATENT-CLASS-361-222
		US-PATENT-CLASS-375-39	N87-28605*	NASA-CASE-ARC-11425-2			US-PATENT-4,698,723
		US-PATENT-CLASS-375-54		US-PATENT-APPL-SN-641152	N88-14179*	c 26	NASA-CASE-LEW-14104-2
		US-PATENT-CLASS-455-65		US-PATENT-CLASS-558-145			US-PATENT-APPL-SN-661481
		US-PATENT-4,675,880		US-PATENT-CLASS-558-190			US-PATENT-APPL-SN-823713
N87-25531*	c 33	NASA-CASE-MS-C-20187-1		US-PATENT-CLASS-558-193			US-PATENT-CLASS-148-16.6

		US-PATENT-CLASS-204-192.31	N88-23759*	c 02	NASA-CASE-LAR-13436-1-CU	NASA-CASE-MFS-28287-1
		US-PATENT-CLASS-427-38			US-PATENT-APPL-SN-003676	US-PATENT-APPL-SN-122740
N88-14223*	c 31	US-PATENT-4,704,168			US-PATENT-CLASS-73-147	NAS 1.71: LAR-13508-1
		NASA-CASE-NPO-16734-1-CU			US-PATENT-CLASS-73-178-R	NASA-CASE-LAR-13508-1
		US-PATENT-APPL-SN-855982			US-PATENT-4,727,751	US-PATENT-APPL-SN-146939
		US-PATENT-CLASS-62-467	N88-23765*	c 05	NASA-CASE-LAR-13511-1	NAS 1.71: LAR-13519-1
		US-PATENT-CLASS-62-48			US-PATENT-APPL-SN-013801	NASA-CASE-LAR-13519-1
		US-PATENT-CLASS-62-514R			US-PATENT-CLASS-244-119	US-PATENT-APPL-SN-146938
		US-PATENT-4,697,425			US-PATENT-CLASS-244-120	NASA-CASE-MSC-20467-1
N88-14270*	c 33	NASA-CASE-NPO-16764-1-CU			US-PATENT-CLASS-244-130	US-PATENT-APPL-SN-874319
		US-PATENT-APPL-SN-904513			US-PATENT-CLASS-244-15	US-PATENT-CLASS-73-587
		US-PATENT-CLASS-439-271			US-PATENT-4,735,381	US-PATENT-CLASS-73-801
		US-PATENT-CLASS-439-578	N88-23808*	c 08	NASA-CASE-GSC-12970-1	US-PATENT-4,738,137
		US-PATENT-4,698,028			US-PATENT-APPL-SN-795805	NASA-CASE-LAR-13458-1
N88-14271*	c 33	NASA-CASE-GSC-12782-1			US-PATENT-CLASS-244-165	US-PATENT-APPL-SN-013802
		US-PATENT-APPL-SN-399074			US-PATENT-4,732,353	US-PATENT-CLASS-73-794
		US-PATENT-CLASS-357-231	N88-23809*	c 08	NASA-CASE-LAR-13630-1	US-PATENT-CLASS-73-810
		US-PATENT-CLASS-357-24			US-PATENT-APPL-SN-008895	US-PATENT-4,718,281
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-244-17.19	NAS 1.71: MSC-21171-1
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-244-91	NASA-CASE-MSC-21171-1
		US-PATENT-CLASS-357-56			US-PATENT-4,708,305	US-PATENT-APPL-SN-135120
		US-PATENT-CLASS-357-61	N88-23827*	c 18	NASA-CASE-MSC-21056-1	NAS 1.71: MFS-28273-1
		US-PATENT-CLASS-357-65			US-PATENT-APPL-SN-934397	NASA-CASE-MFS-28273-1
		US-PATENT-4,709,252			US-PATENT-CLASS-16-292	US-PATENT-APPL-SN-149830
N88-14350*	c 36	NASA-CASE-ARC-11634-1			US-PATENT-CLASS-16-297	NASA-CASE-LEW-14212-1
		US-PATENT-APPL-SN-846427			US-PATENT-CLASS-16-326	US-PATENT-APPL-SN-875798
		US-PATENT-CLASS-350-163			US-PATENT-CLASS-16-332	US-PATENT-CLASS-415-136
		US-PATENT-CLASS-350-174			US-PATENT-CLASS-16-345	US-PATENT-CLASS-415-170-R
		US-PATENT-CLASS-350-572			US-PATENT-CLASS-16-347	US-PATENT-4,728,257
		US-PATENT-CLASS-350-573			US-PATENT-CLASS-16-349	NASA-CASE-MFS-28185-1
		US-PATENT-CLASS-356-28.5			US-PATENT-4,736,490	US-PATENT-APPL-SN-056930
		US-PATENT-4,697,922	N88-23828*	c 18	NASA-CASE-LAR-13411-1-SB	US-PATENT-CLASS-294-106
N88-14359*	c 37	NASA-CASE-LAR-13662-1			US-PATENT-APPL-SN-913432	US-PATENT-CLASS-294-113
		US-PATENT-APPL-SN-790597			US-PATENT-CLASS-180-8.6	US-PATENT-CLASS-294-119.2
		US-PATENT-APPL-SN-904812			US-PATENT-CLASS-414-735	US-PATENT-CLASS-294-16
		US-PATENT-CLASS-228-107			US-PATENT-CLASS-414-750	US-PATENT-4,723,800
		US-PATENT-CLASS-228-109			US-PATENT-CLASS-901-1	NASA-CASE-MFS-29252-1
		US-PATENT-CLASS-228-2.5			US-PATENT-CLASS-901-33	US-PATENT-APPL-SN-044181
		US-PATENT-4,708,280			US-PATENT-4,738,583	US-PATENT-CLASS-219-137.42
N88-14360*	c 37	NASA-CASE-MFS-28001-2	N88-23845*	c 25	NASA-CASE-MFS-28142-1	US-PATENT-CLASS-219-75
		US-PATENT-APPL-SN-025039			US-PATENT-APPL-SN-904128	US-PATENT-4,749,839
		US-PATENT-APPL-SN-739788			US-PATENT-CLASS-204-180.1	NASA-CASE-LAR-13435-1
		US-PATENT-CLASS-269-43			US-PATENT-CLASS-204-299-R	US-PATENT-APPL-SN-890683
		US-PATENT-CLASS-269-71			US-PATENT-4,752,372	US-PATENT-CLASS-123-193-P
		US-PATENT-CLASS-269-73	N88-23846*	c 25	NASA-CASE-NPO-15609-2	US-PATENT-CLASS-92-176
		US-PATENT-4,708,330			US-PATENT-APPL-SN-511363	US-PATENT-CLASS-92-212
N88-14361*	c 37	NASA-CASE-LAR-13453-1			US-PATENT-APPL-SN-761310	US-PATENT-CLASS-92-214
		US-PATENT-APPL-SN-010950			US-PATENT-CLASS-159-3	US-PATENT-CLASS-92-222
		US-PATENT-CLASS-33-147D			US-PATENT-CLASS-159-48.2	US-PATENT-CLASS-92-224
		US-PATENT-CLASS-73-834			US-PATENT-CLASS-159-900	US-PATENT-4,736,676
		US-PATENT-4,706,387			US-PATENT-CLASS-203-90	NASA-CASE-LAR-12801-1
N88-14362*	c 37	NASA-CASE-MFS-29177-1			US-PATENT-CLASS-203-91	US-PATENT-APPL-SN-309291
		US-PATENT-APPL-SN-010942			US-PATENT-CLASS-203-98	US-PATENT-CLASS-188-373
		US-PATENT-CLASS-219-124.34			US-PATENT-4,666,561	US-PATENT-CLASS-248-548
		US-PATENT-CLASS-219-130.01	N88-23894*	c 27	NASA-CASE-GSC-13008-1	US-PATENT-CLASS-248-608
		US-PATENT-CLASS-219-136			US-PATENT-APPL-SN-867987	US-PATENT-CLASS-297-216
		US-PATENT-4,698,484			US-PATENT-CLASS-264-DIG.64	US-PATENT-4,720,139
N88-14492*	c 44	NASA-CASE-ARC-11622-1			US-PATENT-CLASS-264-50	NASA-CASE-MFS-26009-1-SB
		US-PATENT-APPL-SN-823712			US-PATENT-CLASS-425-4-R	US-PATENT-APPL-SN-805011
		US-PATENT-CLASS-126-425			US-PATENT-4,731,211	US-PATENT-CLASS-108-3
		US-PATENT-CLASS-250-203R	N88-23917* #	c 31	NAS 1.71: NPO-17394-1-CU	US-PATENT-CLASS-108-7
		US-PATENT-4,710,618			NASA-CASE-NPO-17394-1-CU	US-PATENT-CLASS-312-196
N88-14835*	c 76	NASA-CASE-MFS-26008-1-CU			US-PATENT-APPL-SN-149821	US-PATENT-CLASS-312-208
		US-PATENT-APPL-SN-800194	N88-23941*	c 33	NASA-CASE-MSC-20181-1	US-PATENT-CLASS-312-300
		US-PATENT-CLASS-156-621			US-PATENT-APPL-SN-392093	US-PATENT-CLASS-312-7.2
		US-PATENT-CLASS-156-622			US-PATENT-CLASS-174-52-PE	US-PATENT-4,725,106
		US-PATENT-CLASS-156-624			US-PATENT-CLASS-174-52-R	NASA-CASE-NPO-16462-1-CU
		US-PATENT-CLASS-422-251			US-PATENT-CLASS-174-52-S	US-PATENT-APPL-SN-815106
		US-PATENT-CLASS-422-260			US-PATENT-CLASS-357-72	US-PATENT-CLASS-364-728
		US-PATENT-4,711,697			US-PATENT-CLASS-357-74	US-PATENT-CLASS-364-757
N88-14836*	c 76	NASA-CASE-NPO-16607-1-CU			US-PATENT-CLASS-357-81	US-PATENT-CLASS-382-42
		US-PATENT-APPL-SN-901114			US-PATENT-CLASS-525-425	US-PATENT-4,750,144
		US-PATENT-CLASS-437-30	N88-23942*	c 33	NASA-CASE-LAR-13202-1	NASA-CASE-NPO-16675-1-CU
		US-PATENT-CLASS-437-128			US-PATENT-APPL-SN-879758	US-PATENT-APPL-SN-627537
		US-PATENT-CLASS-437-131			US-PATENT-CLASS-315-200-R	US-PATENT-APPL-SN-789266
		US-PATENT-CLASS-437-3			US-PATENT-CLASS-315-227-R	US-PATENT-CLASS-181-0.5
		US-PATENT-CLASS-437-7			US-PATENT-CLASS-315-241-R	US-PATENT-CLASS-367-191
		US-PATENT-CLASS-437-8			US-PATENT-CLASS-315-254	US-PATENT-CLASS-73-505
		US-PATENT-CLASS-437-969			US-PATENT-CLASS-315-255	US-PATENT-4,573,356
		US-PATENT-4,711,857			US-PATENT-CLASS-315-276	US-PATENT-4,738,815
N88-18628*	c 24	NAS 1.71: ARC-11641-1			US-PATENT-CLASS-315-277	NASA-CASE-MFS-28122-1
		NASA-CASE-ARC-11641-1			US-PATENT-4,723,096	US-PATENT-APPL-SN-021100
		US-PATENT-APPL-SN-862925	N88-23946* #	c 34	NAS 1.71: NPO-17291-1-CU	US-PATENT-CLASS-250-251
		US-PATENT-CLASS-244-117-A			NASA-CASE-NPO-17291-1-CU	US-PATENT-CLASS-250-423-R
		US-PATENT-CLASS-244-158-A	N88-23958*	c 34	NASA-CASE-MSC-20841-2	US-PATENT-CLASS-250-427
		US-PATENT-CLASS-428-44			US-PATENT-APPL-SN-032679	US-PATENT-CLASS-315-111.41
		US-PATENT-CLASS-428-74			US-PATENT-APPL-SN-755288	US-PATENT-CLASS-315-111.71
		US-PATENT-CLASS-428-76			US-PATENT-CLASS-126-423	US-PATENT-CLASS-315-111.81
		US-PATENT-CLASS-428-920			US-PATENT-CLASS-165-1	US-PATENT-4,742,232
		US-PATENT-4,713,275			US-PATENT-CLASS-165-104.14	NASA-CASE-NPO-16681-1-CU
N88-18725*	c 27	NAS 1.71: LAR-13447-1			US-PATENT-CLASS-165-13	US-PATENT-APPL-SN-764812
		NASA-CASE-LAR-13447-1			US-PATENT-CLASS-165-41	US-PATENT-CLASS-204-192.15
		US-PATENT-APPL-SN-855879			US-PATENT-4,684,177	US-PATENT-CLASS-204-192.24
		US-PATENT-CLASS-525-397			US-PATENT-4,750,543	US-PATENT-4,726,890
		US-PATENT-CLASS-525-905	N88-23959* #	c 35	NAS 1.71: MFS-28287-1	NASA-CASE-MFS-28137-1
		US-PATENT-4,711,932				US-PATENT-APPL-SN-925189

		US-PATENT-CLASS-156-DIG.70				US-PATENT-APPL-SN-190185			US-PATENT-APPL-SN-943346
		US-PATENT-CLASS-156-DIG.72				NAS 1.71:NPO-17144-1-CU			US-PATENT-CLASS-165-170
		US-PATENT-CLASS-156-DIG.82		N88-25305* #	c 74	NASA-CASE-NPO-17144-1-CU			US-PATENT-CLASS-165-81
		US-PATENT-CLASS-156-607				US-PATENT-APPL-SN-187716			US-PATENT-4,762,173
		US-PATENT-CLASS-156-621				NASA-CASE-MSC-20985-1	N88-29133*	c 34	NASA-CASE-GSC-13019-1
		US-PATENT-CLASS-156-624		N88-26398*	c 18	US-PATENT-APPL-SN-904134			US-PATENT-APPL-SN-942158
		US-PATENT-CLASS-422-246				US-PATENT-CLASS-104-172.1			US-PATENT-CLASS-122-366
		US-PATENT-4,738,831				US-PATENT-CLASS-104-35			US-PATENT-CLASS-138-38
N88-24545*	c 76	NASA-CASE-MFS-28144-1				US-PATENT-CLASS-104-49			US-PATENT-CLASS-165-104.26
		US-PATENT-APPL-SN-924399				US-PATENT-CLASS-244-159			US-PATENT-CLASS-165-905
		US-PATENT-CLASS-156-DIG.70				US-PATENT-4,757,767			US-PATENT-4,765,396
		US-PATENT-CLASS-156-DIG.72		N88-26404*	c 23	NASA-CASE-LEW-14345-1	N88-29149*	c 35	NASA-CASE-LAR-13776-1
		US-PATENT-CLASS-156-DIG.82				US-PATENT-APPL-SN-924474			US-PATENT-APPL-SN-054980
		US-PATENT-CLASS-156-DIG.84				US-PATENT-CLASS-260-386			US-PATENT-APPL-SN-848429
		US-PATENT-CLASS-156-DIG.89				US-PATENT-CLASS-260-389			US-PATENT-CLASS-244-134-F
		US-PATENT-CLASS-156-DIG.92				US-PATENT-CLASS-260-395			US-PATENT-CLASS-324-61-R
		US-PATENT-CLASS-156-620.76				US-PATENT-CLASS-549-241			US-PATENT-CLASS-340-580
		US-PATENT-4,740,264				US-PATENT-4,758,380			US-PATENT-4,766,369
N88-24621* #	c 04	NAS 1.71:LAR-13854-1-CU		N88-26541* #	c 32	NAS 1.71:NPO-17184-1-CU	N88-29150*	c 35	NASA-CASE-LAR-13826-1
		NASA-CASE-LAR-13854-1-CU				NASA-CASE-NPO-17184-1-CU			US-PATENT-APPL-SN-102705
		US-PATENT-APPL-SN-192562				US-PATENT-APPL-SN-195225			US-PATENT-APPL-SN-684186
N88-24660* #	c 16	NAS 1.71:MSC-21330-1		N88-26568*	c 32	NASA-CASE-MSC-20912-1			US-PATENT-APPL-SN-890982
		NASA-CASE-MSC-21330-1				US-PATENT-APPL-SN-831193			US-PATENT-CLASS-73-290-R
		US-PATENT-APPL-SN-182000				US-PATENT-CLASS-342-125			US-PATENT-CLASS-73-304-R
N88-24684* #	c 20	NAS 1.71:MSC-21299-1				US-PATENT-CLASS-342-127			US-PATENT-4,765,187
		NASA-CASE-MSC-21299-1				US-PATENT-CLASS-342-43	N88-29151*	c 35	NASA-CASE-NPO-17068-1-CU
		US-PATENT-APPL-SN-176587				US-PATENT-CLASS-342-51			US-PATENT-APPL-SN-076956
N88-24692*	c 23	NASA-CASE-ARC-11428-3				US-PATENT-4,757,315			US-PATENT-CLASS-60-527
		US-PATENT-APPL-SN-599126		N88-26596*	c 33	NASA-CASE-NPO-17157-1-CU	N88-29180*	c 37	US-PATENT-4,765,139
		US-PATENT-APPL-SN-760374				US-PATENT-APPL-SN-116810			NASA-CASE-MSC-21207-1
		US-PATENT-APPL-SN-924467				US-PATENT-CLASS-331-162			US-PATENT-APPL-SN-032818
		US-PATENT-CLASS-558-80				US-PATENT-CLASS-331-3			US-PATENT-CLASS-403-171
		US-PATENT-CLASS-564-13				US-PATENT-CLASS-331-94.1			US-PATENT-CLASS-403-217
		US-PATENT-4,550,177				US-PATENT-4,757,278			US-PATENT-CLASS-52-646
		US-PATENT-4,634,759		N88-28914*	c 05	NASA-CASE-ARC-11636-1			US-PATENT-CLASS-52-648
		US-PATENT-4,748,263				US-PATENT-APPL-SN-933963			US-PATENT-4,763,459
N88-24732*	c 25	NASA-CASE-NPO-16907-1-CU				US-PATENT-CLASS-244-12.3	N88-29181*	c 37	NASA-CASE-MSC-21132-1
		US-PATENT-APPL-SN-830217				US-PATENT-CLASS-244-12.4			US-PATENT-APPL-SN-118992
		US-PATENT-CLASS-204-157.22				US-PATENT-CLASS-244-207			US-PATENT-CLASS-188-218-XL
		US-PATENT-CLASS-250-423-P				US-PATENT-CLASS-244-45-A			US-PATENT-CLASS-188-251-A
		US-PATENT-CLASS-250-427				US-PATENT-CLASS-244-55			US-PATENT-4,763,762
		US-PATENT-4,704,197				US-PATENT-4,767,083	N88-29310*	c 60	NASA-CASE-NPO-16116-2
N88-24817* #	c 31	NAS 1.71:MFS-28248-1		N88-28939*	c 09	NASA-CASE-LEW-14374-1			US-PATENT-APPL-SN-004282
		NASA-CASE-MFS-28248-1				US-PATENT-APPL-SN-060200			US-PATENT-APPL-SN-587749
		US-PATENT-APPL-SN-176545				US-PATENT-CLASS-219-383			US-PATENT-CLASS-364-200
N88-24862*	c 33	NASA-CASE-NPO-16402-2				US-PATENT-CLASS-363-97			US-PATENT-4,766,533
		US-PATENT-APPL-SN-013803				US-PATENT-CLASS-60-203.1	N88-29602* #	c 76	NAS 1.71:MFS-28282-1
		US-PATENT-APPL-SN-727931				US-PATENT-4,766,724			NASA-CASE-MFS-28282-1
		US-PATENT-CLASS-307-106		N88-28946* #	c 17	NAS 1.71:NPO-17310-1-CU			US-PATENT-APPL-SN-217533
		US-PATENT-CLASS-315-172				NASA-CASE-NPO-17310-1-CU	N88-30001* #	c 32	NAS 1.71:NPO-16987-1-CU
		US-PATENT-CLASS-315-173				US-PATENT-APPL-SN-200874			NASA-CASE-NPO-16987-1-CU
		US-PATENT-CLASS-328-67		N88-28958*	c 18	NASA-CASE-MSC-21117-1			US-PATENT-APPL-SN-203376
		US-PATENT-4,698,518				US-PATENT-APPL-SN-928975	N88-30108*	c 35	NASA-CASE-LAR-13797-1
N88-24863* #	c 33	NAS 1.71:NPO-16882-1-CU				US-PATENT-CLASS-52-646			US-PATENT-APPL-SN-074792
		NASA-CASE-NPO-16882-1-CU				US-PATENT-CLASS-52-648			US-PATENT-APPL-SN-831372
		US-PATENT-APPL-SN-154711				US-PATENT-4,765,114			US-PATENT-CLASS-156-233
N88-24864* #	c 33	NAS 1.71:NPO-17134-1-CU		N88-29002*	c 25	NASA-CASE-LAR-13528-1			US-PATENT-CLASS-156-247
		NASA-CASE-NPO-17134-1-CU				US-PATENT-APPL-SN-933962			US-PATENT-CLASS-156-272.4
		US-PATENT-APPL-SN-172105				US-PATENT-CLASS-236-15-E			US-PATENT-CLASS-156-274.8
N88-24927*	c 35	NASA-CASE-MSC-20549-2				US-PATENT-CLASS-364-500			US-PATENT-CLASS-156-275.5
		US-PATENT-APPL-SN-045743				US-PATENT-CLASS-364-557			US-PATENT-CLASS-156-307.7
		US-PATENT-APPL-SN-790596				US-PATENT-CLASS-364-571			US-PATENT-4,767,484
		US-PATENT-CLASS-254-93-H				US-PATENT-CLASS-374-36	N88-30131*	c 37	NASA-CASE-MSC-20900-1
		US-PATENT-CLASS-254-93-R				US-PATENT-CLASS-431-13			US-PATENT-APPL-SN-079317
		US-PATENT-CLASS-269-147				US-PATENT-CLASS-431-76			US-PATENT-CLASS-219-121.54
		US-PATENT-CLASS-269-246				US-PATENT-4,761,744			US-PATENT-CLASS-219-121.57
		US-PATENT-CLASS-72-750		N88-29040*	c 27	NASA-CASE-ARC-11649-1-SB			US-PATENT-CLASS-219-124.02
		US-PATENT-4,736,927				US-PATENT-APPL-SN-890577			US-PATENT-CLASS-219-130.4
N88-24941* #	c 35	NAS 1.71:MSC-21094-1				US-PATENT-CLASS-501-88			US-PATENT-CLASS-156-286
		NASA-CASE-MSC-21094-1				US-PATENT-CLASS-501-91	N88-30160* #	c 39	NAS 1.71:LAR-13889-1
		US-PATENT-APPL-SN-156393				US-PATENT-CLASS-501-92			NASA-CASE-LAR-13889-1
N88-24943* #	c 35	NAS 1.71:NPO-17024-1-CU				US-PATENT-CLASS-501-93			US-PATENT-APPL-SN-210277
		NASA-CASE-NPO-17024-1-CU				US-PATENT-CLASS-528-10			NASA-CASE-LAR-12852-1
		US-PATENT-APPL-SN-159613				US-PATENT-CLASS-528-30	N89-11738*	c 05	US-PATENT-APPL-SN-028832
N88-24958*	c 36	NASA-CASE-MSC-20867-1				US-PATENT-CLASS-528-4			US-PATENT-CLASS-244-75-R
		US-PATENT-APPL-SN-045984				US-PATENT-4,767,728			US-PATENT-CLASS-244-78
		US-PATENT-CLASS-356-1		N88-29052*	c 31	NASA-CASE-MSC-18172-3			US-PATENT-4,773,620
		US-PATENT-CLASS-356-376				US-PATENT-APPL-SN-119334			NAS 1.71:LAR-13988-1
		US-PATENT-CLASS-356-4				US-PATENT-APPL-SN-755960	N89-11814* #	c 23	NASA-CASE-LAR-13988-1
		US-PATENT-CLASS-358-107				US-PATENT-APPL-SN-898449			US-PATENT-APPL-SN-210277
		US-PATENT-CLASS-364-561				US-PATENT-CLASS-210-500.25			US-PATENT-APPL-SN-250661
		US-PATENT-4,736,247				US-PATENT-CLASS-210-500.35	N89-11961*	c 32	NASA-CASE-MSC-20873-1-SB
N88-24969* #	c 37	NAS 1.71:MSC-21354-1				US-PATENT-CLASS-210-639			US-PATENT-APPL-SN-060196
		NASA-CASE-MSC-21354-1				US-PATENT-CLASS-210-653			US-PATENT-CLASS-342-374
		US-PATENT-APPL-SN-154712				US-PATENT-CLASS-427-245			US-PATENT-CLASS-342-375
N88-25011* #	c 39	NAS 1.71:LAR-13705-1				US-PATENT-4,762,619			US-PATENT-CLASS-343-777
		NASA-CASE-LAR-13705-1		N88-29076*	c 32	NASA-CASE-NPO-17196-1-CU			US-PATENT-CLASS-343-778
		US-PATENT-APPL-SN-203177				US-PATENT-APPL-SN-084770			US-PATENT-CLASS-343-779
N88-25301* #	c 74	NAS 1.71:NPO-17139-1-CU				US-PATENT-CLASS-328-155			US-PATENT-4,772,893
		NASA-CASE-NPO-17139-1-CU				US-PATENT-CLASS-331-17	N89-12048*	c 35	NASA-CASE-LEW-14297-1
		US-PATENT-APPL-SN-154718				US-PATENT-CLASS-331-25			US-PATENT-APPL-SN-917125
N88-25302* #	c 74	NAS 1.71:LAR-13387-1				US-PATENT-4,771,250			US-PATENT-CLASS-126-443
		NASA-CASE-LAR-13387-1		N88-29095* #	c 33	NAS 1.71:NPO-17233-1-CU			US-PATENT-CLASS-126-901
		US-PATENT-APPL-SN-154716				NASA-CASE-NPO-17233-1-CU			US-PATENT-CLASS-165-41
N88-25304* #	c 74	NAS 1.71:NPO-17207-1-CU				US-PATENT-APPL-SN-231025			US-PATENT-CLASS-165-904
		NASA-CASE-NPO-17207-1-CU		N88-29132*	c 34	NASA-CASE-MSC-20840-1			US-PATENT-4,770,232

N89-12206* #	c 54	NAS 1.71:MSC-21366-1 NASA-CASE-MSC-21366-1 US-PATENT-APPL-SN-213880	N89-13889* #	c 54	US-PATENT-4,772,050 NAS 1.71:MSC-21364-1 NASA-CASE-MSC-21364-1 US-PATENT-APPL-SN-221472	N89-15379* #	c 35	NASA-CASE-MSC-20906-2 US-PATENT-APPL-SN-021569 US-PATENT-CLASS-244-164 US-PATENT-CLASS-244-165 US-PATENT-CLASS-74-572 US-PATENT-4,776,541
N89-12551* #	c 02	NASA-CASE-LAR-13554-1 US-PATENT-APPL-SN-929862 US-PATENT-CLASS-116-DIG.43 US-PATENT-CLASS-116-265 US-PATENT-CLASS-73-147 US-PATENT-4,774,835	N89-14077* #	c 74	NASA-CASE-NPO-17140-1-CU US-PATENT-APPL-SN-125021 US-PATENT-CLASS-250-216 US-PATENT-CLASS-350-354 US-PATENT-4,772,785	N89-16042* #	c 27	NASA-CASE-ARC-11533-2 US-PATENT-APPL-SN-852461 US-PATENT-CLASS-528-220 US-PATENT-CLASS-528-228 US-PATENT-CLASS-528-322 US-PATENT-CLASS-528-353 US-PATENT-CLASS-528-72 US-PATENT-CLASS-528-73 US-PATENT-4,775,740
N89-12621* #	c 18	NASA-CASE-MSC-21096-1 US-PATENT-APPL-SN-929865 US-PATENT-CLASS-182-103 US-PATENT-CLASS-212-225 US-PATENT-CLASS-212-257 US-PATENT-CLASS-414-689 US-PATENT-CLASS-414-718 US-PATENT-CLASS-414-735	N89-14078* #	c 74	NASA-CASE-NPO-16750-1-CU US-PATENT-APPL-SN-927972 US-PATENT-CLASS-350-162.13 US-PATENT-CLASS-350-331-R US-PATENT-CLASS-350-337 US-PATENT-CLASS-350-342 US-PATENT-CLASS-382-31 US-PATENT-4,772,101	N89-16256* #	c 52	NASA-CASE-ARC-11426-2 US-PATENT-APPL-SN-827185 US-PATENT-CLASS-351-203 US-PATENT-CLASS-351-237 US-PATENT-4,778,268
N89-12667* #	c 23	NASA-CASE-LAR-13444-2-CU US-PATENT-APPL-SN-000692 US-PATENT-CLASS-564-315 US-PATENT-CLASS-564-323 US-PATENT-CLASS-564-330 US-PATENT-CLASS-564-342 US-PATENT-CLASS-564-344 US-PATENT-CLASS-564-396 US-PATENT-CLASS-564-430 US-PATENT-4,774,359	N89-14120* #	c 76	NAS 1.71:NPO-17399-1-CU NASA-CASE-NPO-17399-1-CU US-PATENT-APPL-SN-248019	N89-23466* #	c 07	NAS 1.71:LAR-14049-1 NASA-CASE-LAR-14049-1 US-PATENT-APPL-SN-270189
N89-12741* #	c 27	NASA-CASE-LAR-13506-1 US-PATENT-APPL-SN-060182 US-PATENT-CLASS-156-297 US-PATENT-CLASS-156-299 US-PATENT-CLASS-428-44 US-PATENT-CLASS-428-47 US-PATENT-CLASS-428-58 US-PATENT-CLASS-428-71 US-PATENT-CLASS-428-76 US-PATENT-4,774,118	N89-14233* #	c 05	NAS 1.71:LAR-13875-1 NASA-CASE-LAR-13875-1 US-PATENT-APPL-SN-250468	N89-23623* #	c 24	NAS 1.71:LEW-14734-1 NASA-CASE-LEW-14734-1 US-PATENT-APPL-SN-279624
N89-12785* #	c 31	NASA-CASE-NPO-17085-1-CU US-PATENT-APPL-SN-087282 US-PATENT-CLASS-165-61 US-PATENT-CLASS-165-96 US-PATENT-CLASS-62-467 US-PATENT-CLASS-62-514-R US-PATENT-4,771,823	N89-14258* #	c 24	NAS 1.71:LAR-13225-1 NASA-CASE-LAR-13225-1 US-PATENT-APPL-SN-248018	N89-23738* #	c 31	NAS 1.71:MFS-29491-1 NASA-CASE-MFS-29491-1 US-PATENT-APPL-SN-279677
N89-12786* #	c 31	NASA-CASE-LAR-13438-1 US-PATENT-APPL-SN-022298 US-PATENT-CLASS-428-182 US-PATENT-CLASS-52-814 US-PATENT-CLASS-52-821 US-PATENT-4,769,968	N89-14303* #	c 26	NASA-CASE-LEW-14134-2 US-PATENT-APPL-SN-108331 US-PATENT-CLASS-420-54 US-PATENT-CLASS-420-62 US-PATENT-CLASS-420-79 US-PATENT-CLASS-420-80 US-PATENT-CLASS-420-81 US-PATENT-4,780,276	N89-24153* #	c 74	NAS 1.71:NPO-17562-1-CU NASA-CASE-NPO-17562-1-CU US-PATENT-APPL-SN-277596
N89-12841* #	c 35	NASA-CASE-LAR-13569-1 US-PATENT-APPL-SN-010943 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-180 US-PATENT-4,770,032	N89-14337* #	c 27	NASA-CASE-LAR-13601-1-CU US-PATENT-APPL-SN-028831 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-128 US-PATENT-4,788,271	N89-25242* #	c 09	NASA-CASE-MFS-25962-1 US-PATENT-APPL-SN-633180 US-PATENT-CLASS-239-14.1 US-PATENT-CLASS-239-2.1 US-PATENT-4,781,326
N89-12842* #	c 35	NAS 1.71:MSC-21372-1 NASA-CASE-MSC-21372-1 US-PATENT-APPL-SN-246595	N89-14351* #	c 31	NASA-CASE-NPO-17143-1-CU US-PATENT-APPL-SN-105847 US-PATENT-CLASS-62-467 US-PATENT-CLASS-62-514-JT US-PATENT-4,779,428	N89-25266* #	c 18	NASA-CASE-ARC-11505-2 US-PATENT-APPL-SN-159072 US-PATENT-CLASS-244-159 US-PATENT-CLASS-244-161 US-PATENT-CLASS-285-302 US-PATENT-4,807,834
N89-12866* #	c 37	NAS 1.71:MSC-21095-1 NASA-CASE-MSC-21095-1 US-PATENT-APPL-SN-248010	N89-14374* #	c 32	NASA-CASE-GSC-12892-1 US-PATENT-APPL-SN-655606 US-PATENT-CLASS-455-115 US-PATENT-CLASS-455-117 US-PATENT-CLASS-455-67 US-PATENT-CLASS-455-98 US-PATENT-4,777,656	N89-25279* #	c 20	NASA-CASE-MSC-20476-2 US-PATENT-APPL-SN-046341 US-PATENT-CLASS-239-265.17 US-PATENT-CLASS-60-202 US-PATENT-CLASS-60-264 US-PATENT-4,815,279
N89-12867* #	c 37	NAS 1.71:LAR-13719-1 NASA-CASE-LAR-13719-1 US-PATENT-APPL-SN-239260	N89-14384* #	c 33	NASA-CASE-ARC-11536-1 US-PATENT-APPL-SN-725714 US-PATENT-CLASS-342-195 US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-364-900 US-PATENT-4,779,222	N89-25334* #	c 27	NAS 1.71:LAR-13925-1 NASA-CASE-LAR-13925-1 US-PATENT-APPL-SN-301925
N89-12868* #	c 37	NAS 1.71:MFS-29291-1 NASA-CASE-MFS-29291-1 US-PATENT-APPL-SN-250196	N89-14385* #	c 33	NASA-CASE-LAR-13552-1-CU US-PATENT-APPL-SN-933941 US-PATENT-CLASS-324-77-E US-PATENT-CLASS-324-77-R US-PATENT-CLASS-324-78-D US-PATENT-CLASS-324-78-F US-PATENT-CLASS-356-28.5 US-PATENT-CLASS-364-484 US-PATENT-CLASS-377-39 US-PATENT-4,786,168	N89-25360* #	c 32	NAS 1.71:MSC-21334-1 NASA-CASE-MSC-21334-1 US-PATENT-APPL-SN-292130
N89-13131* #	c 51	NAS 1.71:MSC-21294-1 NASA-CASE-MSC-21294-1 US-PATENT-APPL-SN-213558	N89-14392* #	c 34	NASA-CASE-MFS-28217-1 US-PATENT-APPL-SN-067844 US-PATENT-CLASS-122-366 US-PATENT-CLASS-165-104.14 US-PATENT-CLASS-165-104.26 US-PATENT-4,770,238	N89-25363* #	c 32	NASA-CASE-LAR-13798-1 US-PATENT-APPL-SN-118995 US-PATENT-CLASS-343-DIG.2 US-PATENT-CLASS-343-880 US-PATENT-CLASS-343-915 US-PATENT-4,811,033
N89-13236* #	c 71	NASA-CASE-NPO-16896-1-CU US-PATENT-APPL-SN-087283 US-PATENT-CLASS-73-505 US-PATENT-4,773,266	N89-14407* #	c 35	NASA-CASE-LAR-13300-1-CU US-PATENT-APPL-SN-829042 US-PATENT-CLASS-310-338 US-PATENT-CLASS-367-908 US-PATENT-CLASS-73-290-V US-PATENT-4,770,038	N89-25557* #	c 51	NAS 1.71:MSC-21361-1 NASA-CASE-MSC-21361-1 US-PATENT-APPL-SN-278137
N89-13253* #	c 74	NAS 1.71:MFS-28183-1 NASA-CASE-MFS-28183-1 US-PATENT-APPL-SN-244367	N89-14422* #	c 35	NASA-CASE-NPO-17086-1-CU US-PATENT-APPL-SN-087359 US-PATENT-CLASS-73-505 US-PATENT-4,777,823	N89-25689* #	c 74	NASA-CASE-MFS-29348-1 US-PATENT-APPL-SN-156518 US-PATENT-CLASS-350-96.21 US-PATENT-CLASS-350-96.25 US-PATENT-4,798,433
N89-13496* #	c 23	NAS 1.71:LAR-13992-1-CU NASA-CASE-LAR-13992-1-CU US-PATENT-APPL-SN-248009	N89-14423* #	c 35	NASA-CASE-LAR-13853-1 US-PATENT-APPL-SN-143436 US-PATENT-CLASS-73-147 US-PATENT-CLASS-73-861.65 US-PATENT-4,783,994	N89-26202* #	c 35	NASA-CASE-MFS-28242-1 US-PATENT-APPL-SN-149822 US-PATENT-CLASS-356-347 US-PATENT-CLASS-356-361 US-PATENT-4,810,094
N89-13785* #	c 37	NASA-CASE-NPO-16766-1-CU US-PATENT-APPL-SN-921577 US-PATENT-CLASS-194-902 US-PATENT-CLASS-269-267 US-PATENT-CLASS-294-88 US-PATENT-4,770,455	N89-14666* #	c 51	NAS 1.71:MSC-21293-1 NASA-CASE-MSC-21293-1 US-PATENT-APPL-SN-213559	N89-26400* #	c 60	NASA-CASE-NPO-16461-1-CU US-PATENT-APPL-SN-815103 US-PATENT-CLASS-364-131 US-PATENT-CLASS-382-41 US-PATENT-CLASS-382-42 US-PATENT-CLASS-382-49 US-PATENT-4,790,026
N89-13786* #	c 37	NASA-CASE-KSC-11368-1 US-PATENT-APPL-SN-052940 US-PATENT-CLASS-285-107 US-PATENT-CLASS-285-108 US-PATENT-CLASS-285-109 US-PATENT-CLASS-285-133.1 US-PATENT-CLASS-285-351 US-PATENT-CLASS-285-39 US-PATENT-CLASS-285-97				N89-28546* #	c 14	NAS 1.71:MFS-28376-1 NASA-CASE-MFS-28376-1 US-PATENT-APPL-SN-361479
						N89-28547* #	c 14	NAS 1.71:LAR-14149-1-SB NASA-CASE-LAR-14149-1-SB US-PATENT-APPL-SN-357757
						N89-28549* #	c 14	NAS 1.71:LEW-14848-1 NASA-CASE-LEW-14848-1 US-PATENT-APPL-SN-382885
						N89-28553* #	c 18	NASA-CASE-MSC-21211-1 US-PATENT-APPL-SN-105841 US-PATENT-CLASS-244-159 US-PATENT-CLASS-244-161 US-PATENT-CLASS-285-226

			US-PATENT-CLASS-403-51				US-PATENT-CLASS-264-236			N90-15262* #	c 27	NAS 1.71:LEW-14698-2	
			US-PATENT-4,809,936				US-PATENT-CLASS-264-257					NASA-CASE-LEW-14698-2	
N89-28554* #	c 18		NASA-CASE-MSC-21117-2				US-PATENT-CLASS-264-347					US-PATENT-APPL-SN-443289	
			US-PATENT-APPL-SN-184233				US-PATENT-CLASS-264-40.1			N90-15263* #	c 27	NAS 1.71:NPO-17633-1-CU	
			US-PATENT-APPL-SN-929875				US-PATENT-CLASS-264-40.5					NASA-CASE-NPO-17633-1-CU	
			US-PATENT-CLASS-248-DIG-1				US-PATENT-CLASS-264-40.6					US-PATENT-APPL-SN-418611	
			US-PATENT-CLASS-403-30				US-PATENT-4,810,438			N90-15442* #	c 37	NAS 1.71:LAR-13981-1	
			US-PATENT-CLASS-403-4			N89-29577* #	c 31	NAS 1.71:NPO-17630-1-CU				NASA-CASE-LAR-13981-1	
			US-PATENT-CLASS-52-573					NASA-CASE-NPO-17630-1-CU				US-PATENT-APPL-SN-405154	
			US-PATENT-CLASS-52-648					US-PATENT-APPL-SN-304149			N90-15444* #	c 37	NAS 1.71:LEW-14672-1
			US-PATENT-4,805,368			N89-29578* #	c 31	NASA-CASE-GSC-13112-1				NASA-CASE-LEW-14672-1	
N89-28556* #	c 18		NAS 1.71:MFS-28327-1					US-PATENT-APPL-SN-205771				US-PATENT-APPL-SN-441672	
			NASA-CASE-MFS-28327-1					US-PATENT-CLASS-206-0.7			N90-15445* #	c 37	NAS 1.71:LEW-14776-1
			US-PATENT-APPL-SN-361200					US-PATENT-CLASS-220-5A				NASA-CASE-LEW-14776-1	
N89-28603* #	c 25		NAS 1.71:MFS-26049-1-NP					US-PATENT-CLASS-220-901				US-PATENT-APPL-SN-458274	
			NASA-CASE-MFS-26049-1-NP					US-PATENT-CLASS-62-45			N90-15710* #	c 71	NAS 1.71:LAR-13968-1
			US-PATENT-APPL-SN-376487					US-PATENT-CLASS-62-48				NASA-CASE-LAR-13968-1	
N89-28621* #	c 26		NASA-CASE-LAR-13924-1-CU					US-PATENT-4,821,907				US-PATENT-APPL-SN-392165	
			US-PATENT-APPL-SN-172102			N89-29679* #	c 33	NAS 1.71:NPO-17393-1-CU			N90-15733* #	c 74	NAS 1.71:LEW-14795-1
			US-PATENT-CLASS-148-159					NASA-CASE-NPO-17393-1-CU				NASA-CASE-LEW-14795-1	
			US-PATENT-CLASS-148-416					US-PATENT-APPL-SN-279676				US-PATENT-APPL-SN-404291	
			US-PATENT-CLASS-148-417			N89-29681* #	c 33	NASA-CASE-NPO-16888-1-CU			N90-16104* #	c 32	NAS 1.71:NPO-17548-1-CU
			US-PATENT-CLASS-420-529					US-PATENT-APPL-SN-133412				NASA-CASE-NPO-17548-1-CU	
			US-PATENT-CLASS-420-533					US-PATENT-CLASS-324-117				US-PATENT-APPL-SN-404293	
			US-PATENT-4,820,488					US-PATENT-CLASS-324-127			N90-16272* #	c 37	NAS 1.71:LAR-13580-1
N89-28651* #	c 27		NAS 1.71:LEW-14679-1					US-PATENT-CLASS-330-8				NASA-CASE-LAR-13580-1	
			NASA-CASE-LEW-14679-1					US-PATENT-4,823,074				US-PATENT-APPL-SN-441673	
			US-PATENT-APPL-SN-381240			N89-29750* #	c 37	NAS 1.71:NPO-17275-1-CU			N90-16391* #	c 52	NAS 1.71:NPO-17439-1-CU
N89-28672* #	c 32		NASA-CASE-LAR-13747-1-CU					NASA-CASE-NPO-17275-1-CU				NASA-CASE-NPO-17439-1-CU	
			US-PATENT-APPL-SN-197191					US-PATENT-APPL-SN-292047				US-PATENT-APPL-SN-444248	
			US-PATENT-CLASS-342-1			N89-29953* #	c 54	NASA-CASE-KSC-11322-1			N90-16411* #	c 61	NAS 1.71:MSC-21387-1
			US-PATENT-CLASS-342-165					US-PATENT-APPL-SN-894541				NASA-CASE-MSC-21387-1	
			US-PATENT-CLASS-342-5					US-PATENT-CLASS-2-201				US-PATENT-APPL-SN-323748	
N89-28676* #	c 32		US-PATENT-4,809,003					US-PATENT-CLASS-24-688			N90-16771* #	c 09	NAS 1.71:MSC-21470-1
			NASA-CASE-NPO-17249-1-CU					US-PATENT-CLASS-381-183				NASA-CASE-MSC-21470-1	
			US-PATENT-APPL-SN-125666					US-PATENT-CLASS-381-187				US-PATENT-APPL-SN-381239	
			US-PATENT-CLASS-358-88					US-PATENT-4,783,822			N90-16781* #	c 16	NAS 1.71:LAR-14156-1
			US-PATENT-CLASS-358-91			N89-29976* #	c 62	NAS 1.71:NPO-17197-1-CU				NASA-CASE-LAR-14156-1	
			US-PATENT-CLASS-358-92					NASA-CASE-NPO-17197-1-CU			N90-16860* #	c 18	US-PATENT-APPL-SN-433804
			US-PATENT-4,819,064					US-PATENT-APPL-SN-292124				NASA-CASE-ARC-11635-1	
N89-28684* #	c 32		NAS 1.71:NPO-17628-1-CU			N89-30076* #	c 76	NAS 1.71:NPO-17534-1-CU				US-PATENT-APPL-SN-110368	
			NASA-CASE-NPO-17628-1-CU					NASA-CASE-NPO-17534-1-CU				US-PATENT-CLASS-2-2.1A	
			US-PATENT-APPL-SN-350813					US-PATENT-APPL-SN-292141				US-PATENT-CLASS-244-159	
N89-28713* #	c 33		NASA-CASE-NPO-17108-1-CU			N90-10261* #	c 27	NAS 1.71:NPO-17524-1-CU			N90-16887* #	c 25	US-PATENT-4,842,224
			US-PATENT-APPL-SN-032819					NASA-CASE-NPO-17524-1-CU				NAS 1.71:MSC-21487-1	
			US-PATENT-CLASS-364-724.01					US-PATENT-APPL-SN-366957				NASA-CASE-MSC-21487-1	
			US-PATENT-CLASS-364-724.05			N90-10329* #	c 33	NAS 1.71:NPO-17426-1-CU				US-PATENT-APPL-SN-429739	
			US-PATENT-CLASS-364-735					NASA-CASE-NPO-17426-1-CU			N90-16925* #	c 27	NAS 1.71:MSC-21503-1
			US-PATENT-CLASS-364-754					US-PATENT-APPL-SN-363815				NASA-CASE-MSC-21503-1	
			US-PATENT-4,823,299			N90-10415* #	c 35	NAS 1.71:LEW-14880-1				US-PATENT-APPL-SN-443414	
N89-28793* #	c 35		NAS 1.71:MFS-28370-1					NASA-CASE-LEW-14880-1			N90-16949* #	c 27	NASA-CASE-GSC-13008-2
			NASA-CASE-MFS-28370-1					US-PATENT-APPL-SN-376738				US-PATENT-APPL-SN-163928	
			US-PATENT-APPL-SN-386175			N90-10608* #	c 62	NAS 1.71:NPO-17716-1-CU				US-PATENT-CLASS-521-145	
N89-28795* #	c 35		NAS 1.71:NPO-17596-1-CU					NASA-CASE-NPO-17716-1-CU				US-PATENT-CLASS-521-178	
			NASA-CASE-NPO-17596-1-CU					US-PATENT-APPL-SN-357759				US-PATENT-CLASS-521-189	
			US-PATENT-APPL-SN-361531			N90-10717* #	c 75	NAS 1.71:MFS-28368-1				US-PATENT-CLASS-521-82	
N89-28816* #	c 36		NAS 1.71:LAR-13772-1					NASA-CASE-MFS-28368-1				US-PATENT-CLASS-521-97	
			NASA-CASE-LAR-13772-1					US-PATENT-APPL-SN-386174				US-PATENT-CLASS-521-98	
			US-PATENT-APPL-SN-359460			N90-10718* #	c 75	NAS 1.71:LEW-14901-1				US-PATENT-4,843,123	
N89-28817* #	c 36		NAS 1.71:LAR-14203-1					NASA-CASE-LEW-14901-1			N90-16950* #	c 27	NASA-CASE-LAR-13821-1
			NASA-CASE-LAR-14203-1					US-PATENT-APPL-SN-376488				US-PATENT-APPL-SN-071686	
			US-PATENT-APPL-SN-359459					NASA-CASE-MSC-21327-1				US-PATENT-CLASS-524-233	
N89-28831* #	c 37		NASA-CASE-MFS-28253-1			N90-11798* #	c 18	US-PATENT-APPL-SN-292121				US-PATENT-CLASS-524-366	
			US-PATENT-APPL-SN-165943					NASA-CASE-MSC-21327-1				US-PATENT-CLASS-524-378	
			US-PATENT-CLASS-33-536					US-PATENT-APPL-SN-452465				US-PATENT-CLASS-524-600	
			US-PATENT-4,809,441			N90-11824* #	c 25	US-PATENT-CLASS-165-156				US-PATENT-CLASS-524-607	
N89-28842* #	c 37		NAS 1.71:MFS-28345-2					US-PATENT-CLASS-165-81				US-PATENT-CLASS-528-125	
			NASA-CASE-MFS-28345-2					US-PATENT-CLASS-165-83				US-PATENT-CLASS-528-353	
			US-PATENT-APPL-SN-358028					US-PATENT-CLASS-165-83				US-PATENT-4,837,300	
N89-28846* #	c 37		NAS 1.71:NPO-17785-1-CU					US-PATENT-CLASS-431-352			N90-16974* #	c 32	NAS 1.71:NPO-17564-1-CU
			NASA-CASE-NPO-17785-1-CU					US-PATENT-CLASS-60-730				NASA-CASE-NPO-17564-1-CU	
			US-PATENT-APPL-SN-353411					US-PATENT-CLASS-60-732				US-PATENT-APPL-SN-414811	
N89-29027* #	c 54		NAS 1.71:MSC-21629-1					US-PATENT-4,819,438			N90-16975* #	c 32	NAS 1.71:NPO-17853-1-CU
			NASA-CASE-MSC-21629-1			N90-12289* #	c 71	NASA-CASE-NPO-16995-1-CU				NASA-CASE-NPO-17853-1-CU	
			US-PATENT-APPL-SN-378548					US-PATENT-APPL-SN-924297				US-PATENT-APPL-SN-443539	
N89-29169* #	c 72		NASA-CASE-NPO-16789-1-CU					US-PATENT-CLASS-73-505			N90-17005* #	c 32	NASA-CASE-NPO-17325-1-CU
			US-PATENT-APPL-SN-154713					US-PATENT-CLASS-73-571				US-PATENT-APPL-SN-184235	
			US-PATENT-CLASS-250-252					US-PATENT-4,800,756				US-PATENT-CLASS-324-78D	
			US-PATENT-CLASS-250-397			N90-15094* #	c 05	NAS 1.71:LAR-13870-1				US-PATENT-CLASS-324-78Z	
			US-PATENT-4,818,868					NASA-CASE-LAR-13870-1				US-PATENT-4,843,328	
N89-29191* #	c 74		NAS 1.71:NPO-17703-1-CU					US-PATENT-APPL-SN-429516			N90-17010* #	c 33	NAS 1.71:NPO-17621-1-CU
			NASA-CASE-NPO-17703-1-CU			N90-15130* #	c 20	NAS 1.71:LEW-14846-1				NASA-CASE-NPO-17621-1-CU	
			US-PATENT-APPL-SN-359801					NASA-CASE-LEW-14846-1				US-PATENT-APPL-SN-414820	
N89-29538* #	c 27		NASA-CASE-LEW-14392-2					US-PATENT-APPL-SN-443523			N90-17104* #	c 35	NAS 1.71:NPO-17786-1-CU
			US-PATENT-APPL-SN-038560					NAS 1.71:LAR-14194-1				NASA-CASE-NPO-17786-1-CU	
			US-PATENT-APPL-SN-886149			N90-15148* #	c 24	NASA-CASE-LAR-14194-1				US-PATENT-APPL-SN-414812	
			US-PATENT-CLASS-428-288					US-PATENT-APPL-SN-344877				NASA-CASE-LAR-13710-1	
			US-PATENT-CLASS-428-367			N90-15161* #	c 25	NAS 1.71:LAR-13996-1-SB			N90-17117* #	c 35	US-PATENT-APPL-SN-210487
			US-PATENT-CLASS-428-375					NASA-CASE-LAR-13996-1-SB				US-PATENT-CLASS-73-147	
			US-PATENT-CLASS-428-390					US-PATENT-APPL-SN-426345				US-PATENT-CLASS-73-862.61	
			US-PATENT-CLASS-428-408			N90-15259* #	c 27	NAS 1.71:LAR-14162-1				US-PATENT-4,836,035	
			US-PATENT-CLASS-428-698					NASA-CASE-LAR-14162-1			N90-17118* #	c 35	NASA-CASE-NPO-16617-2-CU
			US-PATENT-4,781,993					US-PATENT-APPL-SN-410572				US-PATENT-APPL-SN-12	

N90-17132*	c 36	US-PATENT-CLASS-357-61	US-PATENT-CLASS-219-72	US-PATENT-CLASS-55-139
		US-PATENT-4,843,439	US-PATENT-CLASS-219-74	US-PATENT-4,605,424
N90-17137* #	c 37	NASA-CASE-NPO-17824-1-CU	US-PATENT-4,839,489	US-PATENT-4,860,149
		US-PATENT-APPL-SN-159613	NASA-CASE-NPO-16949-1-CU	NASA-CASE-LAR-13761-1
N90-17138* #	c 37	US-PATENT-CLASS-356-43	US-PATENT-APPL-SN-927987	US-PATENT-APPL-SN-237036
		US-PATENT-CLASS-374-124	US-PATENT-CLASS-370-16	US-PATENT-CLASS-165-104
N90-17153*	c 37	US-PATENT-CLASS-374-126	US-PATENT-CLASS-371-8	US-PATENT-CLASS-165-133
		US-PATENT-CLASS-374-130	US-PATENT-4,847,837	US-PATENT-CLASS-165-180
N90-17154*	c 37	US-PATENT-4,840,496	NASA-CASE-NPO-17259-1-CU	US-PATENT-CLASS-165-41
		NAS 1.71:MSC-21476-1	US-PATENT-APPL-SN-184234	US-PATENT-CLASS-165-905
N90-17403* #	c 70	NASA-CASE-MSC-21476-1	US-PATENT-CLASS-148-13	US-PATENT-4,838,346
		US-PATENT-APPL-SN-392235	US-PATENT-CLASS-148-13.1	NASA-CASE-NPO-16878-1-CU
N90-17408* #	c 71	NAS 1.71:MSC-21434-1	US-PATENT-CLASS-428-641	US-PATENT-APPL-SN-084062
		NASA-CASE-MSC-21434-1	US-PATENT-CLASS-437-903	US-PATENT-CLASS-219-121.28
N90-17454* #	c 76	US-PATENT-APPL-SN-433881	US-PATENT-4,849,033	US-PATENT-CLASS-250-310
		NASA-CASE-NPO-17354-1-CU	NASA-CASE-LAR-13777-1	US-PATENT-CLASS-250-396-ML
N90-17455* #	c 76	US-PATENT-APPL-SN-184236	US-PATENT-APPL-SN-210480	US-PATENT-CLASS-250-396-R
		US-PATENT-CLASS-280-677	US-PATENT-CLASS-244-130	US-PATENT-4,847,502
N90-17456* #	c 76	US-PATENT-CLASS-280-682	US-PATENT-CLASS-244-54	NASA-CASE-MSC-21365-1
		US-PATENT-4,840,394	US-PATENT-CLASS-244-55	US-PATENT-APPL-SN-221388
N90-18852* #	c 51	NASA-CASE-MFS-28192-1	US-PATENT-4,867,394	US-PATENT-CLASS-294-106
		US-PATENT-APPL-SN-093417	NASA-CASE-LAR-14031-1	US-PATENT-CLASS-294-86.4
N90-19278*	c 18	US-PATENT-CLASS-24-635	US-PATENT-APPL-SN-252081	US-PATENT-CLASS-901-38
		US-PATENT-CLASS-292-27	US-PATENT-CLASS-244-130	US-PATENT-CLASS-901-39
N90-19298*	c 20	US-PATENT-CLASS-292-34	US-PATENT-CLASS-244-137.4	US-PATENT-4,858,979
		US-PATENT-CLASS-403-322	US-PATENT-4,863,118	NASA-CASE-LAR-13696-1
N90-19300*	c 23	US-PATENT-CLASS-403-325	NASA-CASE-LAR-13734-1-CU	US-PATENT-APPL-SN-267146
		US-PATENT-CLASS-403-328	US-PATENT-APPL-SN-082766	US-PATENT-CLASS-73-831
N90-19425*	c 31	US-PATENT-4,836,707	US-PATENT-CLASS-364-427	US-PATENT-CLASS-73-860
		NAS 1.71:LAR-13785-1	US-PATENT-CLASS-73-178-T	US-PATENT-4,864,865
N90-19427*	c 31	NASA-CASE-LAR-13785-1	US-PATENT-4,843,554	NASA-CASE-MFS-28234-1
		US-PATENT-APPL-SN-405168	NASA-CASE-MSC-21386-1	US-PATENT-APPL-SN-087281
N90-19492*	c 33	NAS 1.71:LAR-13966-1	US-PATENT-APPL-SN-292123	US-PATENT-CLASS-427-2
		NASA-CASE-LAR-13966-1	US-PATENT-CLASS-166-343	US-PATENT-CLASS-428-408
N90-19534*	c 34	US-PATENT-APPL-SN-422726	US-PATENT-CLASS-244-159	US-PATENT-CLASS-530-362
		NAS 1.71:LEW-14676-2	US-PATENT-CLASS-244-161	US-PATENT-CLASS-530-363
N90-19534*	c 34	NASA-CASE-LEW-14676-2	US-PATENT-CLASS-405-188	US-PATENT-CLASS-530-364
		US-PATENT-APPL-SN-458467	US-PATENT-4,858,857	US-PATENT-CLASS-530-367
N90-19602*	c 37	NAS 1.71:NPO-17736-1-CU	NASA-CASE-ARC-11425-4	US-PATENT-CLASS-530-422
		NASA-CASE-NPO-17736-1-CU	US-PATENT-APPL-SN-054985	US-PATENT-4,833,233
		US-PATENT-APPL-SN-392166	US-PATENT-APPL-SN-493864	NASA-CASE-MFS-25786-2
		NAS 1.71:NPO-17812-1-CU	US-PATENT-APPL-SN-522629	US-PATENT-APPL-SN-441896
		NASA-CASE-NPO-17812-1-CU	US-PATENT-APPL-SN-641152	US-PATENT-APPL-SN-811309
		US-PATENT-APPL-SN-387928	US-PATENT-CLASS-558-190	US-PATENT-CLASS-156-616.4
		NAS 1.71:MSC-21560-1	US-PATENT-4,864,050	US-PATENT-CLASS-156-616.41
		NASA-CASE-MSC-21560-1	NASA-CASE-LAR-13542-2-SB	US-PATENT-CLASS-422-249
		US-PATENT-APPL-SN-317931	US-PATENT-APPL-SN-145719	US-PATENT-4,863,553
		NASA-CASE-MSC-21356-1	US-PATENT-CLASS-204-157.51	NASA-CASE-NPO-17280-1-CU
		US-PATENT-APPL-SN-165956	US-PATENT-CLASS-372-59	US-PATENT-APPL-SN-195226
		US-PATENT-CLASS-114-112	US-PATENT-CLASS-502-339	US-PATENT-CLASS-371-041
		US-PATENT-CLASS-114-201R	US-PATENT-CLASS-502-352	US-PATENT-CLASS-371-043
		US-PATENT-CLASS-244-129.5	US-PATENT-CLASS-502-38	US-PATENT-CLASS-371-37.4
		US-PATENT-CLASS-244-158R	US-PATENT-CLASS-502-53	US-PATENT-CLASS-371-38.1
		US-PATENT-CLASS-49-253	US-PATENT-4,839,330	US-PATENT-4,907,233
		US-PATENT-4,842,223	NASA-CASE-LAR-13741-1-SB	NASA-CASE-LAR-13965-1-CU
		NASA-CASE-LAR-13773-1	US-PATENT-APPL-SN-090874	US-PATENT-APPL-SN-221386
		US-PATENT-APPL-SN-165946	US-PATENT-CLASS-502-325	US-PATENT-CLASS-526-262
		US-PATENT-CLASS-60-204	US-PATENT-CLASS-502-339	US-PATENT-CLASS-528-322
		US-PATENT-CLASS-60-259	US-PATENT-CLASS-502-344	US-PATENT-CLASS-548-400
		US-PATENT-CLASS-60-260	US-PATENT-4,855,274	US-PATENT-CLASS-548-524
		US-PATENT-4,831,818	NASA-CASE-KSC-11387-1	US-PATENT-4,851,544
		NASA-CASE-LEW-14346-1	US-PATENT-APPL-SN-232734	NASA-CASE-LAR-13817-1
		US-PATENT-APPL-SN-924470	US-PATENT-CLASS-141-45	US-PATENT-APPL-SN-210486
		US-PATENT-CLASS-528-188	US-PATENT-CLASS-55-160	US-PATENT-CLASS-073-801
		US-PATENT-CLASS-528-229	US-PATENT-CLASS-55-182	US-PATENT-CLASS-324-209
		US-PATENT-CLASS-528-352	US-PATENT-CLASS-55-205	US-PATENT-CLASS-324-226
		US-PATENT-CLASS-528-353	US-PATENT-4,848,987	US-PATENT-CLASS-324-227
		US-PATENT-4,845,167	NASA-CASE-MSC-21253-1	US-PATENT-CLASS-324-235
		NASA-CASE-NPO-16901-1-CU	US-PATENT-APPL-SN-251439	US-PATENT-CLASS-324-239
		US-PATENT-APPL-SN-921574	US-PATENT-CLASS-137-154	US-PATENT-4,912,411
		US-PATENT-CLASS-264-114	US-PATENT-CLASS-141-93	NASA-CASE-ARC-11649-2-SB
		US-PATENT-CLASS-425-425	US-PATENT-CLASS-239-543	US-PATENT-APPL-SN-231027
		US-PATENT-CLASS-425-435	US-PATENT-CLASS-55-159	US-PATENT-CLASS-501-88
		US-PATENT-CLASS-425-73	US-PATENT-CLASS-55-46	US-PATENT-CLASS-501-91
		US-PATENT-CLASS-425-75	US-PATENT-4,846,854	US-PATENT-CLASS-501-92
		US-PATENT-4,839,121	NASA-CASE-MSC-18808-1	US-PATENT-CLASS-528-10
		NASA-CASE-LAR-13638-1	US-PATENT-APPL-SN-125677	US-PATENT-CLASS-528-30
		US-PATENT-APPL-SN-223124	US-PATENT-CLASS-342-105	US-PATENT-CLASS-528-4
		US-PATENT-CLASS-156-344	US-PATENT-CLASS-342-114	US-PATENT-CLASS-528-402
		US-PATENT-CLASS-244-133	US-PATENT-CLASS-342-195	US-PATENT-4,851,491
		US-PATENT-CLASS-427-272	US-PATENT-4,860,014	NASA-CASE-LAR-13448-1
		US-PATENT-4,851,071	NASA-CASE-GSC-12442-2	US-PATENT-APPL-SN-838654
		NASA-CASE-MFS-29149-1	US-PATENT-APPL-SN-675471	US-PATENT-CLASS-264-022
		US-PATENT-APPL-SN-073541	US-PATENT-CLASS-357-22	US-PATENT-CLASS-522-162
		US-PATENT-CLASS-323-354	US-PATENT-CLASS-357-55	US-PATENT-CLASS-522-165
		US-PATENT-CLASS-324-62	US-PATENT-CLASS-357-68	US-PATENT-CLASS-528-176
		US-PATENT-CLASS-364-481	US-PATENT-CLASS-357-76	US-PATENT-CLASS-528-308
		US-PATENT-CLASS-364-482	US-PATENT-CLASS-357-81	US-PATENT-4,910,233
		US-PATENT-4,849,903	US-PATENT-4,843,440	NASA-CASE-MFS-26047-1
		NASA-CASE-LAR-13952-1-SB	NASA-CASE-LAR-13273-2	US-PATENT-APPL-SN-244369
		US-PATENT-APPL-SN-203178	US-PATENT-APPL-SN-625436	US-PATENT-CLASS-210-205
		US-PATENT-CLASS-73-432.1	US-PATENT-APPL-SN-862942	US-PATENT-CLASS-210-247
		US-PATENT-4,848,153	US-PATENT-CLASS-323-903	US-PATENT-CLASS-210-257.1
		NASA-CASE-MFS-29260-1	US-PATENT-CLASS-361-65	US-PATENT-CLASS-210-321.6
		US-PATENT-APPL-SN-156059	US-PATENT-CLASS-361-79	US-PATENT-CLASS-210-340
			US-PATENT-CLASS-55-105	US-PATENT-CLASS-210-94

N90-21215*	c 31	US-PATENT-CLASS-210-95	US-PATENT-CLASS-422-98	US-PATENT-CLASS-419-24
		US-PATENT-4,909,933	US-PATENT-CLASS-436-137	US-PATENT-CLASS-419-36
		NASA-CASE-NPO-17278-1-CU	US-PATENT-CLASS-436-143	US-PATENT-CLASS-419-37
		US-PATENT-APPL-SN-172100	US-PATENT-CLASS-436-55	US-PATENT-CLASS-419-8
N90-21216*	c 31	US-PATENT-CLASS-181-0-5	US-PATENT-4,911,890	US-PATENT-CLASS-428-551
		US-PATENT-CLASS-361-383	N90-22042*	US-PATENT-CLASS-428-552
		US-PATENT-CLASS-361-384	c 37	US-PATENT-CLASS-75-228
		US-PATENT-CLASS-361-385	US-PATENT-APPL-SN-250469	US-PATENT-4,904,538
N90-21358*	c 35	US-PATENT-CLASS-62-467	US-PATENT-CLASS-123-193P	NASA-CASE-LEW-14345-2
		US-PATENT-4,858,717	US-PATENT-CLASS-29-888,046	US-PATENT-APPL-SN-159071
		NASA-CASE-LAR-14050-1	US-PATENT-CLASS-92-212	US-PATENT-APPL-SN-924474
		US-PATENT-APPL-SN-067846	US-PATENT-CLASS-92-213	US-PATENT-CLASS-260-386
N90-21390*	c 37	US-PATENT-APPL-SN-237657	US-PATENT-CLASS-92-222	US-PATENT-CLASS-260-395
		US-PATENT-CLASS-164-113	US-PATENT-CLASS-92-248	US-PATENT-CLASS-549-241
		US-PATENT-CLASS-164-284	US-PATENT-4,909,133	US-PATENT-CLASS-562-413
		US-PATENT-CLASS-249-127	N90-22383*	US-PATENT-CLASS-562-415
N90-21519*	c 52	US-PATENT-4,865,114	c 74	US-PATENT-CLASS-562-417
		NASA-CASE-NPO-17235-1-CU	NASA-CASE-KSC-11392-1	US-PATENT-4,885,116
		US-PATENT-APPL-SN-116811	US-PATENT-APPL-SN-262851	NASA-CASE-LAR-14155-1-SB
		US-PATENT-CLASS-357-29	US-PATENT-CLASS-250-229	US-PATENT-APPL-SN-298150
N90-21525*	c 60	US-PATENT-CLASS-357-30	US-PATENT-CLASS-350-356	US-PATENT-CLASS-502-217
		US-PATENT-CLASS-357-4	US-PATENT-4,910,396	US-PATENT-CLASS-502-218
		US-PATENT-CLASS-357-58	N90-22584*	US-PATENT-CLASS-502-226
		US-PATENT-CLASS-357-90	c 16	US-PATENT-CLASS-502-239
N90-21527*	c 60	US-PATENT-4,860,074	INT-PATENT-CLASS-B64G-1/14	US-PATENT-CLASS-502-241
		NASA-CASE-MS-21436-1	NASA-CASE-LAR-13486-1	US-PATENT-CLASS-502-245
		US-PATENT-APPL-SN-313839	US-Patent-4,884,770	US-PATENT-CLASS-502-324
		US-PATENT-CLASS-102-378	US-PATENT-APPL-SN-076955	US-PATENT-4,912,082
N90-21822*	c 24	US-PATENT-CLASS-194-82.26	US-PATENT-CLASS-244-158R	INT-PATENT-CLASS-F28D-15/02
		US-PATENT-CLASS-194-82.29	US-PATENT-CLASS-244-160	NASA-CASE-GSC-13199-1
		US-PATENT-CLASS-89-1.14	US-PATENT-CLASS-244-161	US-PATENT-APPL-SN-304147
		US-PATENT-CLASS-89-1.57	US-PATENT-CLASS-244-172	US-PATENT-CLASS-122-366
N90-21999*	c 34	US-PATENT-4,864,910	N90-22724*	US-PATENT-CLASS-165-104.26
		NASA-CASE-LAR-13901-1-NP	c 33	US-PATENT-CLASS-165-41
		US-PATENT-APPL-SN-118993	INT-PATENT-CLASS-H01J-25/34	US-PATENT-CLASS-165-905
		US-PATENT-APPL-SN-929869	NASA-CASE-LEW-14520-1	US-PATENT-4,883,116
N90-22023*	c 35	US-PATENT-CLASS-128-661.03	US-Patent-4,890,036	INT-PATENT-CLASS-G01N-27/72
		US-PATENT-4,852,578	US-PATENT-APPL-SN-130058	INT-PATENT-CLASS-G01R-27/00
		NASA-CASE-NPO-17205-1-CU	US-PATENT-CLASS-315-3	INT-PATENT-CLASS-G01R-33/12
		US-PATENT-APPL-SN-143434	US-PATENT-CLASS-315-3.5	NASA-CASE-LAR-13465-1
N90-22024*	c 35	US-PATENT-CLASS-377-111	US-PATENT-CLASS-331-82	US-PATENT-APPL-SN-133413
		US-PATENT-CLASS-377-114	INT-PATENT-CLASS-B64D-1/00	US-PATENT-CLASS-264-40.1
		US-PATENT-CLASS-377-116	NASA-CASE-NPO-17390-1-CU	US-PATENT-CLASS-324-234
		US-PATENT-CLASS-377-123	US-Patent-4,886,222	US-PATENT-CLASS-324-236
N90-22025*	c 35	US-PATENT-CLASS-377-126	US-PATENT-APPL-SN-205899	US-PATENT-CLASS-526-60
		US-PATENT-CLASS-377-126	US-PATENT-CLASS-244-1R	US-PATENT-4,891,591
		US-PATENT-CLASS-377-69	US-PATENT-CLASS-244-138A	NASA-CASE-LAR-14188-1
		US-PATENT-CLASS-377-79	US-PATENT-CLASS-358-109	US-PATENT-APPL-SN-087375
N90-22202*	c 35	US-PATENT-4,845,728	N90-22770*	US-PATENT-APPL-SN-328392
		NASA-CASE-NPO-16859-1-CU	c 35	US-PATENT-CLASS-528-125
		US-PATENT-APPL-SN-113956	INT-PATENT-CLASS-H04N-7/18	US-PATENT-CLASS-528-126
		US-PATENT-CLASS-364-229.4	NASA-CASE-LAR-13740-1	US-PATENT-CLASS-528-128
N90-21951*	c 33	US-PATENT-CLASS-364-267.9	US-Patent-4,885,633	US-PATENT-CLASS-528-172
		US-PATENT-CLASS-364-940.67	US-PATENT-APPL-SN-205900	US-PATENT-CLASS-528-185
		US-PATENT-CLASS-364-942.51	US-PATENT-CLASS-250-459.1	US-PATENT-CLASS-528-188
		US-PATENT-CLASS-364-944	US-PATENT-CLASS-350-461.1	US-PATENT-CLASS-528-353
N90-21999*	c 34	US-PATENT-CLASS-364-975.5	US-PATENT-CLASS-358-113	US-PATENT-4,895,972
		US-PATENT-CLASS-371-11.3	US-PATENT-CLASS-374-162	INT-PATENT-CLASS-B29B-33/02
		US-PATENT-4,868,818	INT-PATENT-CLASS-C30B-7/02	NASA-CASE-MS-20782-1
		NASA-CASE-LAR-12887-3	NASA-CASE-MFS-28206-1-SB	US-PATENT-APPL-SN-213392
N90-21999*	c 34	US-PATENT-APPL-SN-323236	US-Patent-4,886,646	US-PATENT-CLASS-264-11
		US-PATENT-CLASS-181-286	US-PATENT-APPL-SN-172101	US-PATENT-CLASS-264-28
		US-PATENT-CLASS-181-290	US-PATENT-CLASS-156-DIG.62	US-PATENT-CLASS-264-43
		US-PATENT-CLASS-89-36.02	US-PATENT-CLASS-156-DIG.72	US-PATENT-CLASS-264-6
N90-21951*	c 33	US-PATENT-4,911,062	US-PATENT-CLASS-156-600	US-PATENT-4,919,852
		NASA-CASE-NPO-17430-1-CU	US-PATENT-CLASS-156-608	INT-PATENT-CLASS-B23K-9/16
		US-PATENT-APPL-SN-332677	US-PATENT-CLASS-422-245	NASA-CASE-MFS-29489-1
		US-PATENT-CLASS-318-434	INT-PATENT-CLASS-B64C-9/08	US-PATENT-APPL-SN-279625
N90-21999*	c 34	US-PATENT-CLASS-318-561	NASA-CASE-LAR-13983-1	US-PATENT-CLASS-219-136
		US-PATENT-CLASS-318-615	US-PATENT-APPL-SN-192563	US-PATENT-CLASS-219-75
		US-PATENT-CLASS-318-618	US-PATENT-CLASS-244-45A	US-PATENT-4,879,446
		US-PATENT-CLASS-388-821	US-PATENT-CLASS-244-46	NASA-CASE-NPO-17301-1-CU
N90-21999*	c 34	US-PATENT-4,912,386	US-PATENT-CLASS-244-75R	US-PATENT-APPL-SN-337767
		NASA-CASE-MS-21271-1	US-PATENT-CLASS-244-90R	US-PATENT-CLASS-122-366
		US-PATENT-APPL-SN-252077	US-PATENT-4,917,333	US-PATENT-CLASS-165-104.26
		US-PATENT-CLASS-165-32	INT-PATENT-CLASS-C21D-1/09	US-PATENT-CLASS-165-41
N90-22023*	c 35	US-PATENT-CLASS-165-46	NASA-CASE-MFS-28281-1	US-PATENT-CLASS-222-187
		US-PATENT-CLASS-165-78	US-PATENT-APPL-SN-205898	US-PATENT-CLASS-239-145
		US-PATENT-CLASS-165-96	US-PATENT-CLASS-148-149	US-PATENT-CLASS-417-53
		US-PATENT-4,909,313	US-PATENT-CLASS-148-4	US-PATENT-CLASS-417-572
N90-22024*	c 35	NASA-CASE-KSC-11386-1	US-PATENT-CLASS-148-902	US-PATENT-4,877,082
		US-PATENT-APPL-SN-264107	US-PATENT-CLASS-148-903	INT-PATENT-CLASS-H03B-5/12
		US-PATENT-CLASS-324-329	US-PATENT-4,902,354	NASA-CASE-GSC-13173-1
		US-PATENT-4,912,414	N90-23475*	US-PATENT-APPL-SN-292037
N90-22025*	c 35	NASA-CASE-LEW-14844-1	c 23	US-PATENT-CLASS-331-116FE
		US-PATENT-APPL-SN-326766	INT-PATENT-CLASS-C07S-9/40	US-PATENT-CLASS-331-117FE
		US-PATENT-CLASS-210-512.1	NASA-CASE-ARC-11425-3	US-PATENT-4,873,498
		US-PATENT-CLASS-210-97	US-PATENT-APPL-SN-054982	
N90-22025*	c 35	US-PATENT-CLASS-55-160	US-PATENT-APPL-SN-493864	
		US-PATENT-CLASS-55-203	US-PATENT-APPL-SN-522629	
		US-PATENT-CLASS-55-204	US-PATENT-APPL-SN-641152	
		US-PATENT-4,911,738	US-PATENT-CLASS-558-193	
N90-22025*	c 35	NASA-CASE-LAR-13816-1	US-PATENT-4,886,896	
		US-PATENT-APPL-SN-165945	N90-23480*	
		US-PATENT-CLASS-422-111	c 24	
		US-PATENT-CLASS-422-126	NASA-CASE-MFS-29241-1	
N90-22025*	c 35	US-PATENT-CLASS-422-62	US-PATENT-APPL-SN-252078	
			US-PATENT-CLASS-244-158A	
			US-PATENT-CLASS-428-607	
			US-PATENT-CLASS-428-623	
N90-22025*	c 35		US-PATENT-CLASS-428-627	
			US-PATENT-CLASS-428-632	
			US-PATENT-CLASS-428-666	
			US-PATENT-CLASS-428-680	
N90-22025*	c 35		US-PATENT-4,877,689	
			N90-23493*	
			c 24	
			NASA-CASE-LEW-14719-1	
N90-22025*	c 35		US-PATENT-APPL-SN-326757	

N90-23636*	c 33	INT-PATENT-CLASS-G06F-1/02 NASA-CASE-NPO-17241-1-CU US-PATENT-APPL-SN-113954 US-PATENT-CLASS-364-717 US-PATENT-CLASS-364-746.1 US-PATENT-4,890,252	US-PATENT-CLASS-428-35.9 US-PATENT-CLASS-428-367 US-PATENT-CLASS-428-376 US-PATENT-CLASS-428-379 US-PATENT-4,923,751	NASA-CASE-MFS-28421-1 US-PATENT-APPL-SN-481537 NAS 1.71:NPO-17858-1-CU NASA-CASE-NPO-17858-1-CU US-PATENT-APPL-SN-503487
N90-23700*	c 34	INT-PATENT-CLASS-B29B-9/10 NASA-CASE-NPO-17203-1-CU US-PATENT-APPL-SN-250195 US-PATENT-CLASS-264-4 US-PATENT-CLASS-425-5 US-PATENT-CLASS-425-6 US-PATENT-CLASS-425-804 US-PATENT-4,902,450	N90-25197* c 24 NASA-CASE-LAR-13225-1 US-PATENT-APPL-SN-248018 US-PATENT-CLASS-156-153 US-PATENT-CLASS-156-249 US-PATENT-CLASS-156-289 US-PATENT-CLASS-156-344 US-PATENT-CLASS-427-272 US-PATENT-CLASS-427-282 US-PATENT-CLASS-427-290 US-PATENT-4,923,545	N90-26880* # c 24 NASA-CASE-LAR-14338-1 US-PATENT-APPL-SN-429514 NASA-CASE-LAR-14338-1 US-PATENT-APPL-SN-531375
N90-23706*	c 35	INT-PATENT-CLASS-A61B-5/00 NASA-CASE-LAR-13775-1 US-PATENT-APPL-SN-248020 US-PATENT-CLASS-128-675 US-PATENT-CLASS-128-748 US-PATENT-CLASS-128-778 US-PATENT-4,873,990	N90-25340* c 36 INT-PATENT-CLASS-G01P-3/36 NASA-CASE-ARC-11876-1 US-PATENT-APPL-SN-257593 US-PATENT-CLASS-356-28 US-PATENT-CLASS-356-28.5 US-PATENT-4,925,297	N90-26881* # c 24 NAS 1.71:LAR-14159-1 NASA-CASE-LAR-14159-1-CU US-PATENT-APPL-SN-439317 NAS 1.71:LAR-14145-1 NASA-CASE-LAR-14145-1 US-PATENT-APPL-SN-508316
N90-23707*	c 35	INT-PATENT-CLASS-G01M-9/00 NASA-CASE-LAR-13628-1 US-PATENT-APPL-SN-251438 US-PATENT-CLASS-340-825.69 US-PATENT-CLASS-73-147 US-PATENT-4,896,533	N90-25498* c 54 NASA-CASE-MSC-21366-1 US-PATENT-APPL-SN-213880 US-PATENT-CLASS-428-252 US-PATENT-CLASS-428-290 US-PATENT-CLASS-428-328 US-PATENT-CLASS-428-422 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-458 US-PATENT-CLASS-428-474.4 US-PATENT-4,923,741	N90-26952* # c 27 NASA-CASE-LAR-14198-1 US-PATENT-APPL-SN-449210 NAS 1.71:NPO-17873-1-CU NASA-CASE-NPO-17873-1-CU US-PATENT-APPL-SN-501892
N90-23712*	c 35	INT-PATENT-CLASS-G01N-3/32 NASA-CASE-LEW-14124-1 US-PATENT-APPL-SN-396263 US-PATENT-CLASS-73-799 US-PATENT-CLASS-73-845 US-PATENT-4,916,954	N90-25583* c 60 INT-PATENT-CLASS-H02L-9/04 NASA-CASE-NPO-17525-1-CU US-PATENT-APPL-SN-279630 US-PATENT-CLASS-380-25 US-PATENT-CLASS-380-45 US-PATENT-CLASS-380-49 US-PATENT-4,926,481	N90-27015* # c 32 NASA-CASE-NPO-17873-1-CU US-PATENT-APPL-SN-501892 NAS 1.71:NPO-17911-1-CU NASA-CASE-NPO-17911-1-CU US-PATENT-APPL-SN-517114
N90-23713*	c 35	NASA-CASE-LAR-14056-1 US-PATENT-APPL-SN-010949 US-PATENT-APPL-SN-251073 US-PATENT-CLASS-364-578 US-PATENT-CLASS-364-900 US-PATENT-CLASS-364-924.4 US-PATENT-CLASS-364-925.1 US-PATENT-CLASS-364-933.8 US-PATENT-CLASS-364-934 US-PATENT-4,918,652	N90-26073* # c 20 NAS 1.71:MSC-21542-1 NASA-CASE-MSC-21542-1 US-PATENT-APPL-SN-470480	N90-27040* # c 33 NASA-CASE-NPO-17897-1-CU US-PATENT-APPL-SN-480449 NAS 1.71:NPO-17809-1-CU NASA-CASE-NPO-17809-1-CU US-PATENT-APPL-SN-503409
N90-23742*	c 37	INT-PATENT-CLASS-F03D-9/00 NASA-CASE-LAR-13434-1 US-PATENT-APPL-SN-246594 US-PATENT-CLASS-290-44 US-PATENT-CLASS-290-55 US-PATENT-CLASS-416-9 US-PATENT-4,894,554	N90-26098* # c 25 NAS 1.71:NPO-17480-1-CU NASA-CASE-NPO-17480-1-CU US-PATENT-APPL-SN-508386	N90-27070* # c 34 NAS 1.71:NPO-17625-1-CU NASA-CASE-NPO-17625-1-CU US-PATENT-APPL-SN-531434 NAS 1.71:LAR-14078-1-CU NASA-CASE-LAR-14078-1-CU US-PATENT-APPL-SN-429737
N90-23751*	c 37	INT-PATENT-CLASS-B64D-33/04 INT-PATENT-CLASS-F16J-15/46 NASA-CASE-LEW-14695-1 US-PATENT-APPL-SN-292146 US-PATENT-CLASS-239-265.11 US-PATENT-CLASS-277-158 US-PATENT-CLASS-277-34 US-PATENT-4,917,302	N90-26168* c 31 INT-PATENT-CLASS-B23K-9/24 NASA-CASE-MFS-29491-1 US-PATENT-APPL-SN-279677 US-PATENT-CLASS-219-136 US-PATENT-CLASS-219-75 US-PATENT-4,924,053	N90-27071* # c 34 NASA-CASE-LAR-14078-1-CU US-PATENT-APPL-SN-429737 NAS 1.71:LAR-14033-1 NASA-CASE-LAR-14033-1 US-PATENT-APPL-SN-501909
N90-23756*	c 38	INT-PATENT-CLASS-G01B-15/06 NASA-CASE-LAR-13724-1 US-PATENT-APPL-SN-125678 US-PATENT-CLASS-378-51 US-PATENT-CLASS-378-58 US-PATENT-4,899,356	N90-26176* # c 31 NAS 1.71:NPO-17569-1-CU NASA-CASE-NPO-17569-1-CU US-PATENT-APPL-SN-545236	N90-27110* # c 37 NAS 1.71:NPO-17801-1-CU NASA-CASE-NPO-17801-1-CU US-PATENT-APPL-SN-459029
N90-24150*	c 76	INT-PATENT-CLASS-G01N-21/64 INT-PATENT-CLASS-G01N-21/84 NASA-CASE-LAR-13963-1 US-PATENT-APPL-SN-232735 US-PATENT-CLASS-356-73 US-PATENT-CLASS-356-73.1 US-PATENT-4,890,915	N90-26292* # c 34 NAS 1.71:NPO-17204-1-CU NASA-CASE-NPO-17204-1-CU US-PATENT-APPL-SN-473242	N90-27112* # c 37 NAS 1.71:MFS-28384-1 NASA-CASE-MFS-28384-1 US-PATENT-APPL-SN-473064
N90-24168*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26304* # c 35 NAS 1.71:MFS-28425-1 NASA-CASE-MFS-28425-1 US-PATENT-APPL-SN-527462	N90-27113* # c 37 NAS 1.71:LAR-14062-1 NASA-CASE-LAR-14062-1 US-PATENT-APPL-SN-423089
N90-24169*	c 76	INT-PATENT-CLASS-G01B-15/06 NASA-CASE-LAR-13724-1 US-PATENT-APPL-SN-125678 US-PATENT-CLASS-378-51 US-PATENT-CLASS-378-58 US-PATENT-4,899,356	N90-26339* # c 37 NAS 1.71:NPO-17917-1-CU NASA-CASE-NPO-17917-1-CU US-PATENT-APPL-SN-545015	N90-27116* # c 37 NAS 1.71:LAR-14142-1 NASA-CASE-LAR-14142-1 US-PATENT-APPL-SN-473030
N90-24150*	c 76	INT-PATENT-CLASS-G01N-21/64 INT-PATENT-CLASS-G01N-21/84 NASA-CASE-LAR-13963-1 US-PATENT-APPL-SN-232735 US-PATENT-CLASS-356-73 US-PATENT-CLASS-356-73.1 US-PATENT-4,890,915	N90-26340* # c 37 NAS 1.71:MSC-21469-1 NASA-CASE-MSC-21469-1 US-PATENT-APPL-SN-486458	N90-27239* # c 51 NAS 1.71:NPO-17653-1-CU NASA-CASE-NPO-17653-1-CU US-PATENT-APPL-SN-501908
N90-24168*	c 76	INT-PATENT-CLASS-G01N-21/64 INT-PATENT-CLASS-G01N-21/84 NASA-CASE-LAR-13963-1 US-PATENT-APPL-SN-232735 US-PATENT-CLASS-356-73 US-PATENT-CLASS-356-73.1 US-PATENT-4,890,915	N90-26341* # c 37 NAS 1.71:MSC-21502-1 NASA-CASE-MSC-21502-1 US-PATENT-APPL-SN-470663	N90-27261* # c 54 NAS 1.71:MFS-28426-1 NASA-CASE-MFS-28426-1 US-PATENT-APPL-SN-508154
N90-24168*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26342* # c 37 NAS 1.71:MSC-21540-1 NASA-CASE-MSC-21540-1 US-PATENT-APPL-SN-527508	N90-27268* # c 60 NAS 1.71:NPO-17629-1-CU NASA-CASE-NPO-17629-1-CU US-PATENT-APPL-SN-458280
N90-24169*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26384* # c 43 NAS 1.71:NPO-17970-1-CU NASA-CASE-NPO-17970-1-CU US-PATENT-APPL-SN-545014	N90-27340* # c 61 NAS 1.71:MSC-21379-1-SB NASA-CASE-MSC-21379-1-SB US-PATENT-APPL-SN-545170
N90-24169*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26518* # c 60 NAS 1.71:NPO-17939-1-CU NASA-CASE-NPO-17939-1-CU US-PATENT-APPL-SN-543915	N90-27341* # c 61 NAS 1.71:NPO-17845-1-CU NASA-CASE-NPO-17845-1-CU US-PATENT-APPL-SN-523692
N90-24169*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26519* # c 60 NAS 1.71:NPO-17954-1-CU NASA-CASE-NPO-17954-1-CU US-PATENT-APPL-SN-545019	N90-27384* # c 62 NAS 1.71:NPO-17664-1-CU NASA-CASE-NPO-17664-1-CU US-PATENT-APPL-SN-463720
N90-24169*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26684* # c 76 NAS 1.71:NPO-17949-1-CU NASA-CASE-NPO-17949-1-CU US-PATENT-APPL-SN-545016	N90-27385* # c 62 NAS 1.71:NPO-17803-1-CU NASA-CASE-NPO-17803-1-CU US-PATENT-APPL-SN-473024
N90-24169*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26685* # c 76 NAS 1.71:NPO-17723-1-CU NASA-CASE-NPO-17723-1-CU US-PATENT-APPL-SN-506137	N90-27472* # c 72 NAS 1.71:LAR-14250-1-SB NASA-CASE-LAR-14250-1-SB US-PATENT-APPL-SN-531372
N90-24169*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26858* # c 18 NAS 1.71:MSC-21420-1 NASA-CASE-MSC-21420-1 US-PATENT-APPL-SN-516573	N90-27487* # c 74 NAS 1.71:NPO-17612-1-CU NASA-CASE-NPO-17612-1-CU US-PATENT-APPL-SN-480385
N90-24169*	c 76	INT-PATENT-CLASS-B32B-15/08 INT-PATENT-CLASS-B32B-7/02 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547 US-PATENT-CLASS-340-692 US-PATENT-CLASS-428-216 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-901 US-PATENT-4,917,940	N90-26859* # c 18 NAS 1.71:MSC-21504-1 NASA-CASE-MSC-21504-1 US-PATENT-APPL-SN-516856	N90-27488* # c 74 NAS 1.71:NPO-17913-1-CU NASA-CASE-NPO-17913-1-CU US-PATENT-APPL-SN-527509
N90-25196*	c 24	NASA-CASE-LAR-13562-1 US-PATENT-APPL-SN-921572 US-PATENT-CLASS-138-141 US-PATENT-CLASS-138-149 US-PATENT-CLASS-138-153	N90-26860* # c 18 NAS 1.71:MSC-21534-1 NASA-CASE-MSC-21534-1 US-PATENT-APPL-SN-480985	N90-27517* # c 76 NAS 1.71:NPO-17724-1-CU NASA-CASE-NPO-17724-1-CU US-PATENT-APPL-SN-488578
N90-25196*	c 24	NASA-CASE-LAR-13562-1 US-PATENT-APPL-SN-921572 US-PATENT-CLASS-138-141 US-PATENT-CLASS-138-149 US-PATENT-CLASS-138-153	N90-26861* # c 18 NAS 1.71:MFS-28421-1	N90-27518* # c 76 NAS 1.71:NPO-17835-1-CU

N90-27594* #	c 89	NASA-CASE-NPO-17835-1-CU US-PATENT-APPL-SN-524959 NAS 1.71:MFS-28013-3 NASA-CASE-MFS-28013-3 US-PATENT-APPL-SN-545089	N91-13692* #	c 35	NASA-CASE-SSC-00006-1 US-PATENT-APPL-SN-489997 NAS 1.71:GSC-13240-1 NASA-CASE-GSC-13240-1 US-PATENT-APPL-SN-571344	N91-14000* #	c 74	NAS 1.71:MSC-21416-1 NASA-CASE-MSC-21416-1 US-PATENT-APPL-SN-545177
N90-27595* #	c 89	NAS 1.71:MFS-28013-4 NASA-CASE-MFS-28013-4 US-PATENT-APPL-SN-545008	N91-13693* #	c 35	NAS 1.71:LAR-14027-1 NASA-CASE-LAR-14027-1 US-PATENT-APPL-SN-587880	N91-14001* #	c 74	NAS 1.71:GSC-13175-1 NASA-CASE-GSC-13175-1 US-PATENT-APPL-SN-506636
N91-13481* #	c 18	NAS 1.71:LAR-13780-1 NASA-CASE-LAR-13780-1 US-PATENT-APPL-SN-575737	N91-13694* #	c 35	NAS 1.71:MSC-21671-1 NASA-CASE-MSC-21671-1 US-PATENT-APPL-SN-318217	N91-14002* #	c 74	NAS 1.71:ARC-11916-1-SB NASA-CASE-ARC-11916-1-SB US-PATENT-APPL-SN-531373
N91-13482* #	c 18	NAS 1.71:MFS-28419-1 NASA-CASE-MFS-28419-1 US-PATENT-APPL-SN-431538	N91-13723* #	c 37	NAS 1.71:MSC-21671-1 NASA-CASE-MSC-21671-1 US-PATENT-APPL-SN-603337	N91-14066* #	c 76	NAS 1.71:GSC-13265-1 NASA-CASE-GSC-13265-1 US-PATENT-APPL-SN-575694
N91-13483* #	c 18	NAS 1.71:MSC-21536-1 NASA-CASE-MSC-21536-1 US-PATENT-APPL-SN-458476	N91-13724* #	c 37	NAS 1.71:NPO-17800-1-CU NASA-CASE-NPO-17800-1-CU US-PATENT-APPL-SN-522949	N91-14096* #	c 89	NAS 1.71:MFS-28013-2 NASA-CASE-MFS-28013-2 US-PATENT-APPL-SN-545220
N91-13500* #	c 24	NAS 1.71:LEW-14999-1 NASA-CASE-LEW-14999-1 US-PATENT-APPL-SN-560926	N91-13729* #	c 37	NAS 1.71:MFS-28406-1 NASA-CASE-MFS-28406-1 US-PATENT-APPL-SN-524110	N91-14321* #	c 04	INT-PATENT-CLASS-G01S-5/02 NASA-CASE-NPO-17820-1-CU US-PATENT-APPL-SN-429734
N91-13502* #	c 24	NAS 1.71:LEW-14921-1 NASA-CASE-LEW-14921-1 US-PATENT-APPL-SN-571059	N91-13730* #	c 37	NAS 1.71:LEW-14862-1 NASA-CASE-LEW-14862-1 US-PATENT-APPL-SN-414816	N91-14345* #	c 05	INT-PATENT-CLASS-B64D-33/00 NASA-CASE-LAR-14116-1 US-PATENT-APPL-SN-004034
N91-13527* #	c 26	NAS 1.71:LAR-14239-1 NASA-CASE-LAR-14239-1 US-PATENT-APPL-SN-555864	N91-13731* #	c 37	NAS 1.71:MFS-28328-1 NASA-CASE-MFS-28328-1 US-PATENT-APPL-SN-458065	N91-14356* #	c 09	NASA-CASE-LAR-13629-1 US-PATENT-APPL-SN-251411
N91-13558* #	c 27	NAS 1.71:LAR-14271-1-CU NASA-CASE-LAR-14271-1-CU US-PATENT-APPL-SN-567025	N91-13732* #	c 37	NAS 1.71:LEW-14965-1 NASA-CASE-LEW-14965-1 US-PATENT-APPL-SN-571062	N91-14357* #	c 09	INT-PATENT-CLASS-G01M-9/00 NASA-CASE-ARC-11877-1-SB US-PATENT-APPL-SN-195563
N91-13559* #	c 27	NAS 1.71:LAR-14163-1 NASA-CASE-LAR-14163-1 US-PATENT-APPL-SN-560717	N91-13733* #	c 37	NAS 1.71:SSC-00008-1 NASA-CASE-SSC-00008-1 US-PATENT-APPL-SN-545178	N91-14371* #	c 17	INT-PATENT-CLASS-G06F-15/20 NASA-CASE-MSC-21170-1 US-PATENT-APPL-SN-182266
N91-13560* #	c 27	NAS 1.71:LAR-14330-1-CU NASA-CASE-LAR-14330-1-CU US-PATENT-APPL-SN-568128	N91-13734* #	c 37	NAS 1.71:GSC-13230-1 NASA-CASE-GSC-13230-1 US-PATENT-APPL-SN-531374	N91-14374* #	c 18	INT-PATENT-CLASS-B64G-1/84 NASA-CASE-MSC-21360-1 US-PATENT-APPL-SN-292131
N91-13561* #	c 27	NAS 1.71:LAR-14351-1 NASA-CASE-LAR-14351-1 US-PATENT-APPL-SN-589571	N91-13735* #	c 37	NAS 1.71:GSC-13127-1 NASA-CASE-GSC-13127-1 US-PATENT-APPL-SN-193612	N91-14412* #	c 19	INT-PATENT-CLASS-G01W-1/00 NASA-CASE-LAR-13392-1-CU US-PATENT-APPL-SN-369490
N91-13562* #	c 27	NAS 1.71:LAR-14036-1 NASA-CASE-LAR-14036-1 US-PATENT-APPL-SN-418372	N91-13767* #	c 39	NAS 1.71:NPO-17914-1-CU NASA-CASE-NPO-17914-1-CU US-PATENT-APPL-SN-575697	N91-14418* #	c 23	INT-PATENT-CLASS-C08G-73/10 NASA-CASE-LAR-13965-2-CU US-PATENT-APPL-SN-221386
N91-13566* #	c 27	NAS 1.71:LEW-15027-1 NASA-CASE-LEW-15027-1 US-PATENT-APPL-SN-603055	N91-13787* #	c 43	NAS 1.71:NPO-17937-1-CU NASA-CASE-NPO-17937-1-CU US-PATENT-APPL-SN-493190	N91-14419* #	c 23	INT-PATENT-CLASS-C07D-207/44 NASA-CASE-LAR-14188-2 US-PATENT-APPL-SN-087375
N91-13580* #	c 31	NAS 1.71:MSC-21703-1 NASA-CASE-MSC-21703-1 US-PATENT-APPL-SN-603052	N91-13796* #	c 44	NAS 1.71:NPO-18034-1-CU NASA-CASE-NPO-18034-1-CU US-PATENT-APPL-SN-568130	N91-14462* #	c 26	INT-PATENT-CLASS-B22D-27/04 NASA-CASE-MFS-28314-1 US-PATENT-APPL-SN-404289
N91-13581* #	c 31	NAS 1.71:NPO-17806-1-CU NASA-CASE-NPO-17806-1-CU US-PATENT-APPL-SN-560908	N91-13802* #	c 44	NAS 1.71:LEW-14731-1 NASA-CASE-LEW-14731-1 US-PATENT-APPL-SN-503486	N91-14489* #	c 27	INT-PATENT-CLASS-H02K-44/10
N91-13594* #	c 32	NAS 1.71:NPO-17904-1-CU NASA-CASE-NPO-17904-1-CU US-PATENT-APPL-SN-544293	N91-13803* #	c 44	NAS 1.71:LEW-14959-1 NASA-CASE-LEW-14959-1 US-PATENT-APPL-SN-495969			
N91-13595* #	c 32	NAS 1.71:NPO-17941-1-CU NASA-CASE-NPO-17941-1-CU US-PATENT-APPL-SN-550775	N91-13857* #	c 51	NAS 1.71:MSC-21585-1 NASA-CASE-MSC-21585-1 US-PATENT-APPL-SN-493529			
N91-13596* #	c 32	NAS 1.71:NPO-17896-1-CU NASA-CASE-NPO-17896-1-CU US-PATENT-APPL-SN-560691	N91-13860* #	c 51	NAS 1.71:MSC-21559-1 NASA-CASE-MSC-21559-1 US-PATENT-APPL-SN-317776			
N91-13598* #	c 32	NAS 1.71:LEW-14945-1 NASA-CASE-LEW-14945-1 US-PATENT-APPL-SN-540976	N91-13865* #	c 52	NAS 1.71:MSC-21675-1 NASA-CASE-MSC-21675-1 US-PATENT-APPL-SN-562095			
N91-13621* #	c 33	NAS 1.71:NPO-17922-1-CU NASA-CASE-NPO-17922-1-CU US-PATENT-APPL-SN-596139	N91-13879* #	c 54	NAS 1.71:MSC-21460-1 NASA-CASE-MSC-21460-1 US-PATENT-APPL-SN-587919			
N91-13622* #	c 33	NAS 1.71:NPO-18075-1-CU NASA-CASE-NPO-18075-1-CU US-PATENT-APPL-SN-555865	N91-13888* #	c 60	NAS 1.71:NPO-17997-1-CU NASA-CASE-NPO-17997-1-CU US-PATENT-APPL-SN-481013			
N91-13657* #	c 34	NAS 1.71:MSC-21549-1 NASA-CASE-MSC-21549-1 US-PATENT-APPL-SN-507553	N91-13890* #	c 60	NAS 1.71:MSC-21481-1 NASA-CASE-MSC-21481-1 US-PATENT-APPL-SN-506136			
N91-13658* #	c 34	NAS 1.71:NPO-17479-1-CU NASA-CASE-NPO-17479-1-CU US-PATENT-APPL-SN-568127	N91-13911* #	c 61	NAS 1.71:MSC-21737-1 NASA-CASE-MSC-21737-1 US-PATENT-APPL-SN-587922			
N91-13668* #	c 34	NAS 1.71:LEW-14162-1 NASA-CASE-LEW-14162-1 US-PATENT-APPL-SN-501893	N91-13944* #	c 63	NAS 1.71:MSC-21381-1 NASA-CASE-MSC-21381-1 US-PATENT-APPL-SN-545235			
N91-13683* #	c 35	NAS 1.71:MSC-21500-1 NASA-CASE-MSC-21500-1 US-PATENT-APPL-SN-458258	N91-13995* #	c 74	NAS 1.71:NPO-18101-1-CU NASA-CASE-NPO-18101-1-CU US-PATENT-APPL-SN-596133			
N91-13684* #	c 35	NAS 1.71:LAR-14340-1-CU NASA-CASE-LAR-14340-1-CU US-PATENT-APPL-SN-575695	N91-13996* #	c 74	NAS 1.71:LEW-14878-1 NASA-CASE-LEW-14878-1 US-PATENT-APPL-SN-587921			
N91-13685* #	c 35	NAS 1.71:LEW-14967-1 NASA-CASE-LEW-14967-1 US-PATENT-APPL-SN-531433	N91-13997* #	c 74	NAS 1.71:MSC-21509-1 NASA-CASE-MSC-21509-1 US-PATENT-APPL-SN-560924			
N91-13686* #	c 35	NAS 1.71:LAR-14088-1 NASA-CASE-LAR-14088-1 US-PATENT-APPL-SN-552670	N91-13998* #	c 74	NAS 1.71:NPO-17784-1-CU NASA-CASE-NPO-17784-1-CU US-PATENT-APPL-SN-568129			
N91-13687* #	c 35	NAS 1.71:LAR-14419-1 NASA-CASE-LAR-14419-1 US-PATENT-APPL-SN-584018	N91-13999* #	c 74	NAS 1.71:MFS-28295-1 NASA-CASE-MFS-28295-1 US-PATENT-APPL-SN-503408			
N91-13691* #	c 35	NAS 1.71:SSC-00006-1						

		NASA-CASE-NPO-17122-1-CU			US-PATENT-CLASS-250-281			NASA-CASE-LEW-14862-1
		US-PATENT-APPL-SN-087376			US-PATENT-CLASS-250-282			US-PATENT-APPL-SN-414816
		US-PATENT-CLASS-310-11			US-PATENT-CLASS-250-286			US-PATENT-CLASS-248-229
		US-PATENT-4,928,027			US-PATENT-CLASS-250-287			US-PATENT-CLASS-248-230
N91-14495*	c 28	NASA-CASE-KSC-11304-2			US-PATENT-CLASS-250-288			US-PATENT-CLASS-403-385
		US-PATENT-APPL-SN-603375			US-PATENT-CLASS-250-305			US-PATENT-CLASS-403-391
		US-PATENT-APPL-SN-798713			US-PATENT-CLASS-250-423			US-PATENT-4,946,122
		US-PATENT-CLASS-423-655			US-PATENT-4,973,840	N91-14642*	c 43	INT-PATENT-CLASS-G01S-13/90
		US-PATENT-CLASS-48-197R	N91-14588*	c 35	NASA-CASE-NPO-17526-1-CU			NASA-CASE-NPO-17831-1-CU
		US-PATENT-CLASS-48-203			US-PATENT-APPL-SN-369403			US-PATENT-APPL-SN-470665
		US-PATENT-CLASS-48-77			US-PATENT-CLASS-250-338.1			US-PATENT-CLASS-342-25
		US-PATENT-CLASS-60-39.12			US-PATENT-CLASS-250-338.2			US-PATENT-4,975,704
		US-PATENT-CLASS-60-39.182			US-PATENT-CLASS-250-370.12	N91-14662*	c 45	NASA-CASE-NST-00007-1
		US-PATENT-4,936,869			US-PATENT-CLASS-250-370.13			US-PATENT-APPL-SN-357938
N91-14508*	c 31	INT-PATENT-CLASS-B23K-26/00			US-PATENT-CLASS-250-493.1			US-PATENT-CLASS-210-615
		NASA-CASE-MFS-28294-1			US-PATENT-CLASS-357-27			US-PATENT-CLASS-55-228
		US-PATENT-APPL-SN-396262			US-PATENT-CLASS-357-30			US-PATENT-CLASS-55-242
		US-PATENT-CLASS-219-121.68			US-PATENT-4,952,811			US-PATENT-CLASS-55-68
		US-PATENT-4,965,429	N91-14590*	c 35	INT-PATENT-CLASS-G02B-27/64			US-PATENT-CLASS-55-74
N91-14523*	c 32	INT-PATENT-CLASS-H04L-27/18			INT-PATENT-CLASS-G02B-7/18			US-PATENT-CLASS-55-84
		NASA-CASE-NPO-16904-2-CU			NASA-CASE-LAR-14207-1			US-PATENT-CLASS-55-89
		US-PATENT-APPL-SN-246032			US-PATENT-APPL-SN-168065			US-PATENT-4,959,084
		US-PATENT-APPL-SN-929876			US-PATENT-APPL-SN-366205	N91-14703*	c 51	INT-PATENT-CLASS-B01D-29/04
		US-PATENT-CLASS-371-43			US-PATENT-CLASS-350-287			INT-PATENT-CLASS-B01D-29/42
		US-PATENT-CLASS-375-53			US-PATENT-CLASS-350-500			NASA-CASE-MSC-20929-1
		US-PATENT-CLASS-375-57			US-PATENT-4,895,430			US-PATENT-APPL-SN-087358
N91-14536*	c 33	INT-PATENT-CLASS-H07M-10/39	N91-14591*	c 35	INT-PATENT-CLASS-F41G-11/00			US-PATENT-CLASS-210-355
		INT-PATENT-CLASS-H07M-4/60			INT-PATENT-CLASS-G02B-23/00			US-PATENT-CLASS-210-414
		NASA-CASE-NPO-17604-1-CU			NASA-CASE-ARC-11886-1-SB			US-PATENT-CLASS-435-311
		US-PATENT-APPL-SN-404288			US-PATENT-APPL-SN-418374			US-PATENT-CLASS-435-316
		US-PATENT-CLASS-252-62.2			US-PATENT-CLASS-33-261			US-PATENT-4,839,046
		US-PATENT-CLASS-429-104			US-PATENT-CLASS-350-576	N91-14709*	c 52	NASA-CASE-MSC-20078-3
		US-PATENT-CLASS-429-213			US-PATENT-4,957,357			US-PATENT-APPL-SN-183475
		US-PATENT-4,966,823	N91-14607*	c 37	INT-PATENT-CLASS-G08B-21/00			US-PATENT-APPL-SN-394343
N91-14537*	c 33	INT-PATENT-CLASS-H01L-43/00			NASA-CASE-MSC-21408-1			US-PATENT-APPL-SN-585627
		NASA-CASE-MSC-21428-1			US-PATENT-APPL-SN-304154			US-PATENT-CLASS-128-671
		US-PATENT-APPL-SN-343652			US-PATENT-CLASS-340-683			US-PATENT-CLASS-128-689
		US-PATENT-CLASS-320-51			US-PATENT-CLASS-73-658			US-PATENT-CLASS-128-706
		US-PATENT-CLASS-338-221	N91-14608*	c 37	INT-PATENT-CLASS-F01D-11/08			US-PATENT-CLASS-128-716
		US-PATENT-CLASS-338-32			NASA-CASE-MFS-28345-1			US-PATENT-CLASS-331-1
		US-PATENT-4,973,936			US-PATENT-APPL-SN-364743	N91-14723*	c 54	INT-PATENT-CLASS-E03D-9/04
N91-14538*	c 33	INT-PATENT-CLASS-H01M-6/20			US-PATENT-CLASS-415-170.1			NASA-CASE-MSC-21025-4
		NASA-CASE-NPO-17640-1-CU			US-PATENT-CLASS-415-174.5			US-PATENT-APPL-SN-035401
		US-PATENT-APPL-SN-405169			US-PATENT-CLASS-415-229			US-PATENT-APPL-SN-392228
		US-PATENT-CLASS-429-103			US-PATENT-4,927,326			US-PATENT-CLASS-4-209R
		US-PATENT-CLASS-429-120	N91-14609*	c 37	INT-PATENT-CLASS-F16K-1/22			US-PATENT-CLASS-4-316
		US-PATENT-4,945,012			NASA-CASE-SSC-00004-1			US-PATENT-CLASS-4-482
N91-14539*	c 33	INT-PATENT-CLASS-H01F-27/30			US-PATENT-APPL-SN-404292			US-PATENT-4,937,891
		NASA-CASE-NPO-17830-1-CU			US-PATENT-CLASS-251-160	N91-14724*	c 54	INT-PATENT-CLASS-A47K-11/00
		US-PATENT-APPL-SN-443297			US-PATENT-CLASS-251-163			NASA-CASE-MSC-21025-2
		US-PATENT-CLASS-336-198			US-PATENT-4,921,212			US-PATENT-APPL-SN-035401
		US-PATENT-CLASS-336-205	N91-14610*	c 37	INT-PATENT-CLASS-B25G-3/00			US-PATENT-APPL-SN-391911
		US-PATENT-CLASS-336-229			INT-PATENT-CLASS-F16B-1/00			US-PATENT-CLASS-4-DIG.9
		US-PATENT-4,975,672			NASA-CASE-MSC-21539-1			US-PATENT-CLASS-4-316
N91-14550*	c 33	INT-PATENT-CLASS-H03D-1/00			US-PATENT-APPL-SN-503410			US-PATENT-CLASS-4-482
		NASA-CASE-GSC-13237-1			US-PATENT-CLASS-285-327			US-PATENT-CLASS-4-661
		US-PATENT-APPL-SN-418612			US-PATENT-CLASS-403-317			US-PATENT-4,942,632
		US-PATENT-CLASS-328-151			US-PATENT-CLASS-403-327	N91-14741*	c 61	INT-PATENT-CLASS-G06F-15/18
		US-PATENT-CLASS-329-363			US-PATENT-CLASS-403-331			NASA-CASE-MSC-21465-1
		US-PATENT-4,973,914			US-PATENT-CLASS-403-381			US-PATENT-APPL-SN-219295
N91-14551*	c 33	INT-PATENT-CLASS-H01L-27/14			US-PATENT-4,971,474			US-PATENT-CLASS-364-513
		NASA-CASE-NPO-17258-1-CU	N91-14613*	c 37	INT-PATENT-CLASS-F16L-35/00			US-PATENT-CLASS-364-578
		US-PATENT-APPL-SN-283673			NASA-CASE-MFS-26042-1-SB			US-PATENT-4,965,743
		US-PATENT-CLASS-357-15			US-PATENT-APPL-SN-161682	N91-14769*	c 62	INT-PATENT-CLASS-G06F-15/16
		US-PATENT-CLASS-357-29			US-PATENT-CLASS-285-361			INT-PATENT-CLASS-G06F-9/46
		US-PATENT-CLASS-357-30			US-PATENT-CLASS-285-82			NASA-CASE-MSC-21348-1
		US-PATENT-CLASS-357-32			US-PATENT-4,932,688			US-PATENT-APPL-SN-283106
		US-PATENT-CLASS-357-58	N91-14614*	c 37	INT-PATENT-CLASS-B25G-3/18			US-PATENT-CLASS-364-228.3
		US-PATENT-4,954,864			NASA-CASE-LAR-14465-1			US-PATENT-CLASS-364-231.9
N91-14552*	c 33	INT-PATENT-CLASS-G01R-1/04			US-PATENT-APPL-SN-223122			US-PATENT-CLASS-364-280
		NASA-CASE-LEW-14746-1			US-PATENT-APPL-SN-388264			US-PATENT-CLASS-364-281
		US-PATENT-APPL-SN-392239			US-PATENT-APPL-SN-501910			US-PATENT-CLASS-364-300
		US-PATENT-CLASS-324-158F			US-PATENT-CLASS-403-171			US-PATENT-4,920,487
		US-PATENT-CLASS-324-158P			US-PATENT-CLASS-403-322	N91-14772*	c 62	INT-PATENT-CLASS-H04J-3/02
		US-PATENT-CLASS-324-601			US-PATENT-CLASS-403-327			NASA-CASE-NPO-17185-1-CU
		US-PATENT-CLASS-333-247			US-PATENT-CLASS-403-331			US-PATENT-APPL-SN-085833
		US-PATENT-4,980,636			US-PATENT-4,963,052			US-PATENT-CLASS-340-825.5
N91-14562*	c 34	INT-PATENT-CLASS-B64B-21/00	N91-14615*	c 37	INT-PATENT-CLASS-B25J-15/08			US-PATENT-CLASS-370-85.4
		NASA-CASE-LAR-13532-1			NASA-CASE-LAR-13855-1			US-PATENT-CLASS-370-85.6
		US-PATENT-APPL-SN-838649			US-PATENT-APPL-SN-250662			US-PATENT-CLASS-370-85.9
		US-PATENT-CLASS-114-67A			US-PATENT-CLASS-294-119.1			US-PATENT-CLASS-370-94.3
		US-PATENT-CLASS-244-130			US-PATENT-CLASS-901-38			US-PATENT-4,933,936
		US-PATENT-CLASS-244-203			US-PATENT-CLASS-901-39	N91-14807*	c 71	INT-PATENT-CLASS-G01K-15/00
		US-PATENT-CLASS-244-204			US-PATENT-4,955,653			NASA-CASE-NPO-17620-1-CU
		US-PATENT-4,932,610	N91-14616*	c 37	NASA-CASE-NPO-15959-2			US-PATENT-APPL-SN-271265
N91-14563*	c 34	INT-PATENT-CLASS-F16K-3/316			US-PATENT-APPL-SN-364774			US-PATENT-CLASS-73-505
		INT-PATENT-CLASS-F16K-3/32			US-PATENT-APPL-SN-680605			US-PATENT-4,964,303
		INT-PATENT-CLASS-F16K-37/00			US-PATENT-CLASS-294-106	N91-14808*	c 71	INT-PATENT-CLASS-H01L-41/08
		NASA-CASE-MFS-28383-1			US-PATENT-CLASS-294-111			NASA-CASE-NPO-17620-1-CU
		US-PATENT-APPL-SN-404290			US-PATENT-CLASS-414-7			US-PATENT-APPL-SN-326756
		US-PATENT-CLASS-137-556			US-PATENT-CLASS-414-729			US-PATENT-CLASS-181-0.5
		US-PATENT-CLASS-251-212			US-PATENT-CLASS-74-479			US-PATENT-CLASS-310-323
		US-PATENT-4,957,139			US-PATENT-CLASS-74-665G			US-PATENT-CLASS-310-325
N91-14587*	c 35	NASA-CASE-NPO-16989-1-CU			US-PATENT-4,921,293			US-PATENT-CLASS-310-334
		US-PATENT-APPL-SN-358027	N91-14617*	c 37	INT-PATENT-CLASS-F16M-13/00			US-PATENT-4,962,330

N91-14813*	c 72	.....	NASA-CASE-NPO-17498-1-CU US-PATENT-APPL-SN-260762 US-PATENT-CLASS-437-225 US-PATENT-CLASS-437-228 US-PATENT-CLASS-437-235 US-PATENT-CLASS-437-238 US-PATENT-CLASS-437-239 US-PATENT-CLASS-437-930 US-PATENT-CLASS-437-936 US-PATENT-4,902,647	N91-15489* #	c 33	.....	NASA-CASE-LEW-14945-2 US-PATENT-APPL-SN-611214 NAS 1.71:NPO-17919-1-CU NASA-CASE-NPO-17919-1-CU US-PATENT-APPL-SN-450188	N91-17350*	c 35	....	NASA-CASE-MSC-21729-1 US-PATENT-APPL-SN-625344 INT-PATENT-CLASS-G01L-3/00 NASA-CASE-NPO-17461-1-CU US-PATENT-APPL-SN-326820 US-PATENT-CLASS-73-862.33 US-PATENT-CLASS-73-862.36 US-PATENT-4,932,270
N91-14835*	c 74	.	INT-PATENT-CLASS-G01N-23/20 INT-PATENT-CLASS-H05B-33/00 NASA-CASE-MFS-28232-1 US-PATENT-APPL-SN-304155 US-PATENT-CLASS-250-327.2 US-PATENT-CLASS-250-484.1 US-PATENT-4,933,558	N91-15511*	c 35	.	NASA-CASE-MSC-21059-2 US-PATENT-APPL-SN-217725 US-PATENT-APPL-SN-396726 US-PATENT-CLASS-73-149 US-PATENT-4,956,996	N91-17360* #	c 36	.	INT-PATENT-CLASS-H01S-3/098 NASA-CASE-NPO-17355-1-CU US-PATENT-APPL-SN-283431 US-PATENT-CLASS-372-19 US-PATENT-CLASS-372-39 US-PATENT-CLASS-372-66 US-PATENT-CLASS-372-70 US-PATENT-4,860,295
N91-14872*	c 76	..	INT-PATENT-CLASS-H01L-41/08 NASA-CASE-MFS-28298-1 US-PATENT-APPL-SN-343656 US-PATENT-CLASS-310-330 US-PATENT-CLASS-310-331 US-PATENT-CLASS-310-339 US-PATENT-CLASS-310-340 US-PATENT-4,952,836	N91-15512*	c 35	.	INT-PATENT-CLASS-G01B-11/26 INT-PATENT-CLASS-G01C-1/00 INT-PATENT-CLASS-G01C-3/08 NASA-CASE-NPO-17436-1-CU US-PATENT-APPL-SN-237035 US-PATENT-CLASS-356-141 US-PATENT-CLASS-356-152 US-PATENT-CLASS-356-5	N91-17387*	c 37	....	INT-PATENT-CLASS-F16D-3/02 NASA-CASE-GSC-13153-1 US-PATENT-APPL-SN-326863 US-PATENT-CLASS-403-113 US-PATENT-CLASS-403-291 US-PATENT-CLASS-403-57 US-PATENT-CLASS-464-132 US-PATENT-CLASS-464-56 US-PATENT-4,932,806
N91-15138* #	c 02	.....	NAS 1.71:ARC-11917-1 NASA-CASE-ARC-11917-1 US-PATENT-APPL-SN-596105 INT-PATENT-CLASS-H01S-3/16 NASA-CASE-NPO-17282-1-CU US-PATENT-APPL-SN-235150 US-PATENT-CLASS-372-41 US-PATENT-CLASS-372-71 US-PATENT-CLASS-372-75 US-PATENT-4,974,230	N91-15519* #	c 35	.....	NAS 1.71:MFS-28485-1 NASA-CASE-MFS-28485-1 US-PATENT-APPL-SN-606988	N91-17388*	c 37	....	INT-PATENT-CLASS-F16D-3/50 NASA-CASE-GSC-13127-1 US-PATENT-APPL-SN-193612 US-PATENT-CLASS-464-56 US-PATENT-CLASS-901-28 US-PATENT-4,946,421
N91-15142*	c 03	.	INT-PATENT-CLASS-B64D-25/08 NASA-CASE-MSC-21332-1 US-PATENT-APPL-SN-242253 US-PATENT-CLASS-102-262 US-PATENT-CLASS-244-122AD US-PATENT-CLASS-244-137.2 US-PATENT-CLASS-244-162 US-PATENT-CLASS-42-1.13 US-PATENT-CLASS-89-1.34 US-PATENT-4,860,971	N91-15520* #	c 35	.....	NAS 1.71:ARC-11917-1 NASA-CASE-ARC-11917-1 US-PATENT-APPL-SN-596105 INT-PATENT-CLASS-H01S-3/16 NASA-CASE-NPO-17282-1-CU US-PATENT-APPL-SN-235150 US-PATENT-CLASS-372-41 US-PATENT-CLASS-372-71 US-PATENT-CLASS-372-75 US-PATENT-4,974,230	N91-17401* #	c 37	.....	NAS 1.71:GSC-13261-1 NASA-CASE-GSC-13261-1 US-PATENT-APPL-SN-628529
N91-15320*	c 24	....	INT-PATENT-CLASS-H01B-1/06 NASA-CASE-LEW-14472-1 US-PATENT-APPL-SN-251499 US-PATENT-CLASS-252-510 US-PATENT-CLASS-423-439 US-PATENT-CLASS-423-448 US-PATENT-CLASS-423-460 US-PATENT-CLASS-423-489 US-PATENT-4,957,661	N91-15528*	c 36	....	INT-PATENT-CLASS-H01S-3/16 NASA-CASE-NPO-17282-1-CU US-PATENT-APPL-SN-235150 US-PATENT-CLASS-372-41 US-PATENT-CLASS-372-71 US-PATENT-CLASS-372-75 US-PATENT-4,974,230	N91-17531* #	c 51	.....	NAS 1.71:MSC-21662-1 NASA-CASE-MSC-21662-1 US-PATENT-APPL-SN-625345
N91-15333* #	c 24	.....	NAS 1.71:MFS-28390-1 NASA-CASE-MFS-28390-1 US-PATENT-APPL-SN-578043	N91-15556* #	c 37	.....	NAS 1.71:GSC-13239-1 NASA-CASE-GSC-13239-1 US-PATENT-APPL-SN-608657				
N91-15334* #	c 24	.....	NAS 1.71:LAR-14459-1 NASA-CASE-LAR-14459-1 US-PATENT-APPL-SN-613046	N91-15661* #	c 47	.....	NAS 1.71:MFS-26102-1-CU NASA-CASE-MFS-26102-1-CU US-PATENT-APPL-SN-571687				
N91-15368* #	c 25	.....	NAS 1.71:MFS-29576-1 NASA-CASE-MFS-29576-1 US-PATENT-APPL-SN-587890	N91-15874* #	c 74	.....	NAS 1.71:LAR-14402-1-CU NASA-CASE-LAR-14402-1-CU US-PATENT-APPL-SN-586369				
N91-15402*	c 27	.	INT-PATENT-CLASS-C08G-73/10 NASA-CASE-LEW-14203-1 US-PATENT-APPL-SN-231026 US-PATENT-CLASS-524-600 US-PATENT-CLASS-525-436 US-PATENT-CLASS-528-353 US-PATENT-4,946,890	N91-15898* #	c 76	.....	NASA-CASE-NPO-16306-1-CU US-PATENT-APPL-SN-718798 US-PATENT-CLASS-118-405 US-PATENT-CLASS-118-407 US-PATENT-CLASS-118-419 US-PATENT-CLASS-118-428 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-617.1 US-PATENT-CLASS-156-620.1 US-PATENT-4,861,416				
N91-15403*	c 27	.	INT-PATENT-CLASS-C08G-69/26 NASA-CASE-LAR-14101-1 US-PATENT-APPL-SN-266045 US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-172 US-PATENT-CLASS-528-173 US-PATENT-CLASS-528-176 US-PATENT-CLASS-528-353 US-PATENT-4,937,317	N91-16152* #	c 27	.....	NAS 1.71:LEW-14984-1 NASA-CASE-LEW-14984-1 US-PATENT-APPL-SN-610883				
N91-15412* #	c 27	.....	NAS 1.71:LEW-15020-1 NASA-CASE-LEW-15020-1 US-PATENT-APPL-SN-601957	N91-16566* #	c 54	.....	NAS 1.71:MSC-21589-1 NASA-CASE-MSC-21589-1 US-PATENT-APPL-SN-529427				
N91-15423*	c 31	INT-PATENT-CLASS-F23J-1/00 NASA-CASE-NPO-16985-1-CU US-PATENT-APPL-SN-195222 US-PATENT-CLASS-110-165R US-PATENT-CLASS-110-171 US-PATENT-CLASS-110-259 US-PATENT-CLASS-414-217 US-PATENT-CLASS-414-220 US-PATENT-4,860,669	N91-16707* #	c 71	NAS 1.71:LAR-14361-1 NASA-CASE-LAR-14361-1 US-PATENT-APPL-SN-587920				
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				N91-17141*	c 23	.	INT-PATENT-CLASS-C07C-15/16 NASA-CASE-LEW-14345-3 US-PATENT-APPL-SN-159071 US-PATENT-APPL-SN-292049 US-PATENT-APPL-SN-924474 US-PATENT-CLASS-552-101 US-PATENT-4,912,238				
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				N91-17340* #	c 34	NAS 1.71:MSC-21729-1				

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NASA *patent application specifications* are sold in paper copy and microfiche by the National Technical Information Service. The US-Patent-Appl-SN-number should be used in ordering either paper copy or microfiche from NTIS.

LICENSES FOR COMMERCIAL USE: INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Associate General Counsel for Intellectual Property, code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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**NASA Case
Number
Prefix Letters**

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PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

FOR FURTHER INFORMATION CONTACT:

Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

Subpart 2—Licensing of NASA Inventions

Sec.

1245.200 Scope of subpart.

1245.201 Policy and objective.

1245.202 Definitions.

1245.203 Authority to grant licenses.

Restrictions and Conditions

1245.204 All licenses granted under this subpart.

Types of Licenses

1245.205 Nonexclusive licenses.

1245.206 Exclusive and partially exclusive licenses.

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1245.207 Application for a license.

1245.208 Processing applications.

1245.209 Notice to Attorney General.

1245.210 Modification and termination of licenses.

1245.211 Appeals.

1245.212 Protection and administration of inventions.

1245.213 Transfer of custody.

1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Stat 3023 and 3024.

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

PATENT LICENSING REGULATIONS

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the **Federal Register**; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the **Federal Register**, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of any written objections received during the period, NASA has determined that:

(1) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(2) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(3) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(4) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the **Federal Register**, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

PATENT LICENSING REGULATIONS

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the **Federal Register** in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

[FR Doc. 81-31609 Filed 10-30-81; 8:45 am]

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